

SERVICE MANUAL



FISHER

COMPACT DISC AUDIO COMPONENT SYSTEM WITH WIRELESS REMOTE CONTROL RTAD-M95

TAD-M95

(EUROPE/FRANCE)



132 358 45 (Black)
132 358 46 (White)
132 358 47 (France)

SPECIFICATIONS

Tuner Section

FM

Frequencies received 87.50 ~ 108.00 MHz
DIN practical sensitivity (mono) 1.2 μ V
S/N ratio 70 dB (mono, 1 mV, 40K DEV.)
Total Harmonic Distortion 0.1 % (mono, 1 kHz)
Stereo separation 40 dB (1 kHz)
Image frequency interference ratio 70 dB

AM

Frequencies received 522 ~ 1611 kHz
Practical sensitivity 700 μ V/m
S/N ratio 55 dB
Image frequency interference ratio 35 dB
Selectivity 35 dB
IF interference ratio 65 dB

Amplifier Section

Output power (Front) 55 W (T.H.D 0.9 %)
Input sensitivity/impedance
PHONO 2.8 mV/50 k Ω
AUX 230 mV/50 k Ω

DECK Section

Motor DC motor (DECK 1 and DECK 2)
Head Hi-B hard permalloy head
(DECK 1 playback head, DECK 2 recording head)
Ferrite head (DECK 2 erasing head)
Fast-forward/rewind time Approx. 110 sec. (C-60 tape)
Tracks 4-track, 2-channel stereo
S/N ratio (playback) 45 dB
Frequency response 40 Hz ~ 14 kHz (metal tape)
Wow and flutter 0.18 % (JIS WTD)

CD Player Section

Frequency response 20 Hz ~ 20 kHz
Harmonic distortion Less than 0.04 % (1 kHz)
S/N ratio 95 dB
Wow and flutter Below measurable limits
Optical pickup 3-beam laser
Error correction CIRC
Sampling frequency 44.1 kHz
D/A conversion 16-bit linear
Filter 8 Times Over Sampling Digital filter

General

Power requirements AC: 220 V, 50 Hz
Power consumption 300 W
Dimensions (WxHxD) 360 x 355 x 309 mm
Weight (approx.) 10.0 kg

Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

— Specifications and design are subject to change without notice. —

REFERENCE No. WM-570544

CONTENTS

Safety Certification	3
Caution on RF Adjustment	4
System Clock Adjustment	4
Front Control P.C.Board Adjustment Points	4
FM Tuner Alignment	5
AM Tuner Alignment	6
Tuner Adjustment Point	6
CD Player Adjustment Procedures	7
CD Player Adjustment Points	7
Cassette Deck Electrical Adjustment	10
Deck Control Adjustment Points	10
Cabinet Exploded View (1)	12
Cabinet Exploded View (2)	13
Cabinet Exploded View (3)	14
Cabinet Parts List	15
Cassette Deck Mechanism Exploded View	16
Cassette Deck Mechanism Parts List	17
CD Player Mechanism Exploded View	18
CD Player Mechanism Parts List	19
P.C.Board Parts List	20
Tape Control P.C.Board	31
Tape Switch P.C.Board	32
CD Control M95 P.C.Board	33
CD Main M95 P.C.Board	34
Amplifier Tuner Printed Circuit Board	37
Front Control Printed Circuit Board	39
SUB Trans P.C.Board	41
Power Trans P.C.Board	41
IC Block Diagram	42
Wiring Diagram (CD Player Section)	50
Wiring Diagram (Main Section)	51
Schematic Diagram (CD Player Section)	53
Schematic Diagram (Tape Deck Section)	55
Schematic Diagram (Front Control Section)	57
IC & Transistor Lead Identification	59

NOTE:

Schematic Diagram (Main Section) is separately attached to this manual.

NOTE:

The photograph on the cover shows the BLACK version of the TAD-M95.

The PEARL WHITE version is identical in all respect.

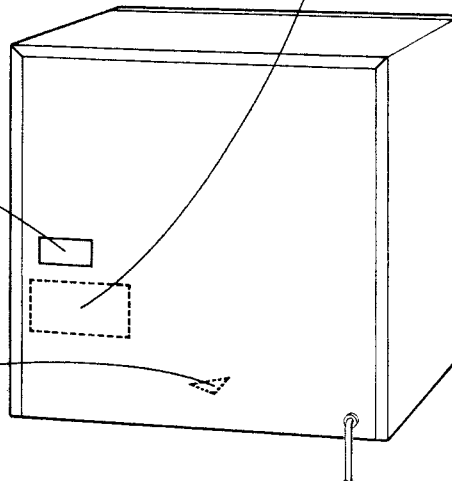
SAFETY CERTIFICATION

Laser Diode Properties

Material: Ga-Al-As
Wavelength: 755 ~ 815 nm (25°C)
Laser Output: Continuous Wave max. 0.5 mW

CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICHT! UNSICHTBARE LASERSTRAHLUNG TRITT AUS. WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST NICHT DEM STRAHL AUSSETZEN!
VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
ADVARSEL - USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

CLASS 1 LASER PRODUCT



CAUTION – USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE UNIT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT QUALIFIED SERVICE PERSONNEL.

CAUTION ON RF ADJUSTMENT

This model uses a microprocessor for memory preset control for the various bands.

This function has been used to preset frequency points for the different bands to permit adjustment and make it possible to check the function of the microprocessor. To use this supplemental function, ground initialize the lead of C815 on the FRONT CONTROL P.C.Board for 1 second before beginning adjustment. The following table shows the initially preset frequencies.

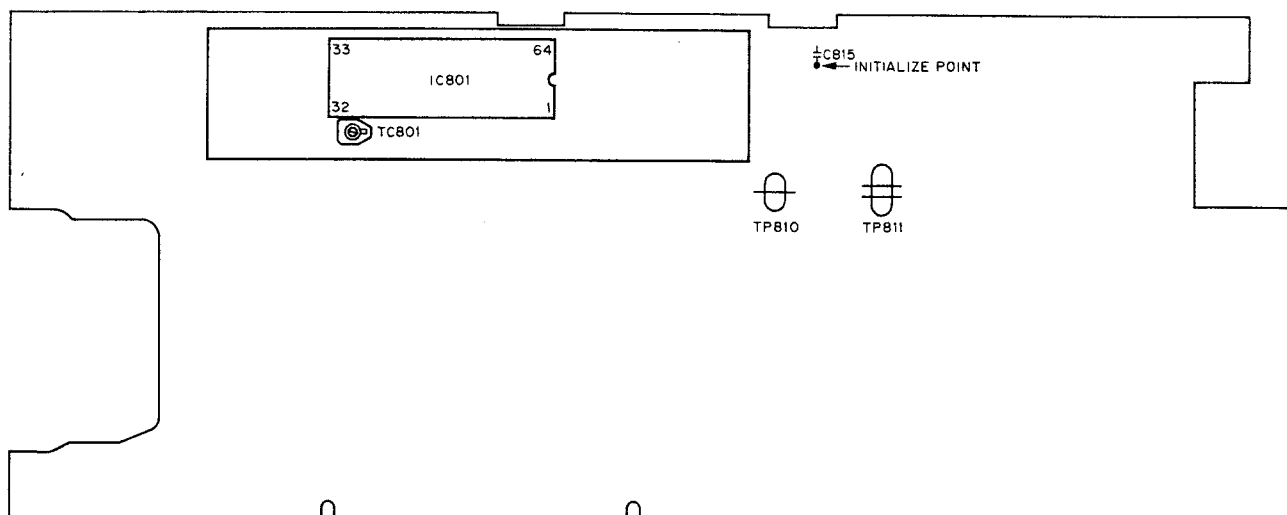
Band	Memory											
	1	2	3	4	5	6	7	8	9	10	11	12
FM-1[MHz]	87.5	108.0	88.0	98.0	108.0	90.0	87.6	107.9	87.5	87.5	87.5	87.5
AM [kHz]	522	1611	603	1404	999	522	522	522	522	522	522	522

SYSTEM CLOCK ADJUSTMENT

Since this adjustment sets standard time for the total system, be sure to adjust before operation.

1. Connect the TP811 to the ground (The FL indicator goes out.)
2. Connect the Frequency Counter between the TP810 and ground.
3. Adjust the TC801 until the Frequency Counter reads $65.536\text{kHz} \pm 0.1\text{Hz}$.
(Avoid the minus "—" disparity as much as possible in case the clock lags behind.)
4. After the adjustment, Disconnect the TP811 from the ground and the original mode is returned.

FRONT CONTROL P.C.BOARD ADJUSTMENT POINTS (BOTTOM VIEW)



FM TUNER ALIGNMENT

FM ALIGNMENT — Band Selector switch to FM position.

Note is almost unnecessary to adjust coil in Front End as perfectly adjusted.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. FM RF FREQUENCY COVER ALIGNMENT (87.5MHz)	Do not connect Generator.	Set Preset STATION button to "1" position. Set to 87.5MHz.	Connect DC Voltmeter to TP223 (VT) and ground lead to chassis.	Adjust FM OSC Coil (L210) until the DC Voltmeter reads 2.3V ±0.1V.
2. (108MHz)	Same as above.	Change Preset STATION button to "2" position. Set to 108MHz.	Same as above.	Check the DC Voltmeter reads 8.0V ~ 9.0V.
Note: Repeat the adjustments in Items 1 and 2. Then, confirm that each voltage becomes 2.3V to 8.5V at receiving frequency of 87.5MHz to 108MHz. (See Table 1)				
3. SENSITIVITY ADJUSTMENT	Connect FM RF Signal Generator through FM Dummy Antenna to FM Antenna terminals. Set Generator to 98MHz. Modulate with 1kHz to provide 40kHz deviation. Adjust attenuator output level to 0dB ~ 6dB.	Set MODE switch to FM MONO position and preset STATION button to "4" position. Set to 98MHz.	Connect AC VTVM and Oscilloscope to Test Point PL01 (TPL or TPR).	Adjust FM RF Coil (L208, L206, L203, L202 and T201) for maximum gain output. Do not touch the Coil (L201, L204, L205 and L207)
Note: Repeat the adjustments in Items 3. Then, confirm there is no tracking error.				
4. CENTER VOLTAGE & DETECTOR ADJUSTMENT (MINIMUM T.H.D.)	Same as above. Set generator to 98MHz. Adjust attenuator output level to 60dBμV.	Same as above. STATION button to "4" position. Set to 98MHz.	Connect DC Voltmeter across TP224 and TP225.	Adjust FM DET 1st Coil (T226) until the DC Voltmeter reads 0V ±50mV.
			Connect Harmonic Distortion Analyzer to Test Point PL01 (TPL or TPR).	Adjust FM DET 2nd Coil (T227) for minimum gain and best linearity. Then adjust FM IFT (T201) and minimize the distortion.
Note: Repeat Step 1 (FM DET 1st Coil T226) and 2 (FM DET 2nd Coil T227) until optimum alignment is reached.				
5. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. Set Generator output level to 60dBμV at 98MHz stereo signal (1kHz-53.3%, Pilot-9%) from LEFT channel.	Same as above. Set MODE switch to FM STEREO position.	Connect AC VTVM and Oscilloscope to Test Point PL01 (TPR).	Adjust P223 for minimum output.
	Same as above for RIGHT channel.		Connect AC VTVM and Oscilloscope to Test Point PL01 (TPL).	
6. FM MUTING AUTO STOP SENSITIVITY ADJUSTMENT	Set generator to 98MHz. Adjust attenuator output level to 18dBμV.	Same as above.	Front panel TUNED Indicator Display.	Adjust P221 until the TUNED Indicator partly light up.
Note: Decrease the output level (16dBμV) of ATT and confirm that the wave form disappears. Increase the output level (20dBμV) of ATT again and confirm that the input level meets the specifications sufficiently when the wave form has appeared.				

Use a screwdriver with plastic grip for all adjustments.

FM Frequency Cover Range
Tuning Voltage Value at TP223 (VT)
(Table 1)

	87.5MHz	108MHz
Minimum	2.2V	8.0V
Typical	2.3V	8.5V
Maximum	2.4V	9.0V

AM Frequency Cover Range
Tuning Voltage Value at TP223 (VT)
(Table 2)

	522kHz	1611kHz
Minimum	0.8V	7.0V
Typical	1.3V	8.0V
Maximum	1.5V	9.0V

AM TUNER ALIGNMENT

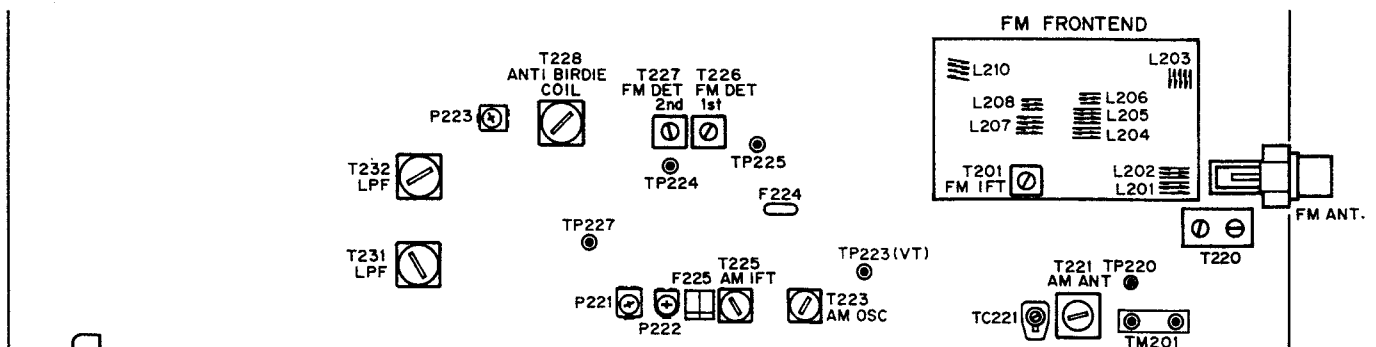
AM ALIGNMENT – FUNCTION switch to AM position.
Maintain generator output as low as possible for suitable indication.

Note: Perform this alignment after FM Tuner Alignment.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. AM IF ALIGNMENT	Connect 450kHz Radio IF Genescope output to AM antenna terminal adjust attenuator output level to 70dB μ V.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP227 and ground lead to chassis.	Adjust AM IFT (T225) for maximum gain and best symmetry. Keep signal low enough for noise on response
2. AM RF FREQUENCY COVER ALIGNMENT (1611kHz)	Do not connect generator.	Set Preset STATION button to "2" position. Set to 1611kHz.	Connect DC Voltmeter to TP223 (VT) and ground lead to chassis.	Adjust AM OSC (T223) until DC Voltmeter reads 8.0V.
3. (522kHz)	Same as above.	Set Preset STATION button to "1" position. Set to 522kHz.	Same as above.	Check DC Voltmeter for Indication 0.8V ~ 1.5V.
Note: Repeat the adjustments in items 2 and 3. Then, confirm that each voltage becomes 1.3V to 8.0V at receiving frequency of 522kHz to 1611kHz. (See Table 2)				
4. AM RF TRACKING ALIGNMENT (603kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop antenna (Unit). Generator Setting to 603kHz or 1404kHz. Modulate with 400Hz (30 % modulation).	Set Preset STATION button to "3" position. Set to 603kHz.	Connect AC VTVM and Oscilloscope to Test Point PL01 (TPL or TPR).	Adjust AM ANT Coil (T221) for maximum gain output.
5. (1404kHz)		Change Preset STATION button to "4" position. Set to 1404kHz.	Same as above.	Adjust AM ANT Trimmer (TC221) for maximum gain output.
Note: Repeat the adjustments in Items 4 and 5. Then, confirm there is no tracking error.				
6. AM AUTO STOP SENSITIVITY ADJUSTMENT	Change generator setting to 990kHz and output level to 60dB μ V/m.	Change DIGITAL Counter Display Set to 990kHz.	Front Panel TUNED Indicator Display.	Adjust P222 until the TUNED Indicator partly light up.

Use a screwdriver with plastic grip for all adjustments.

TUNER ADJUSTMENT POINT (TOP VIEW)



CD PLAYER ADJUSTMENT PROCEDURES

BEFORE CHECKING OR ADJUSTING CD PLAYER

1. Procedures for all adjustments for the CD player from start to finish are described below.
2. If no problems are found after each item is checked when the pick-up is replaced, there is no need to adjust all items again.

SETTING OF INITIAL POSITION OF VOLUME

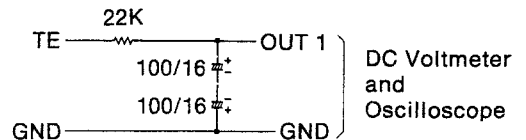
1. Set the potentiometer to the initial positions listed below:
 P53 (E/F BALANCE) Mechanical Center
 P54 (TRACKING GAIN) Mechanical Center
 P55 (TRACKING OFFSET) Mechanical Center
 P56 (KICK GAIN) Mechanical Center

FREE RUN FREQUENCY ADJUSTMENT

1. Connect the frequency counter to **PCK** test terminal (TP52-5) pin and to **GND**. (Use a 10:1 probe.)
2. Short the **DSP OFF** test terminal (TP54-1) pin to **GND** (TP54-4) pin.
3. Push the **POWER** button to switch the power on and push the **STOP** button.
4. Adjust the PLL Coil (T51) using a plastic screwdriver until the frequency counter indicator reads 4.3218MHz ± 5 kHz.

E/F BALANCE ADJUSTMENT

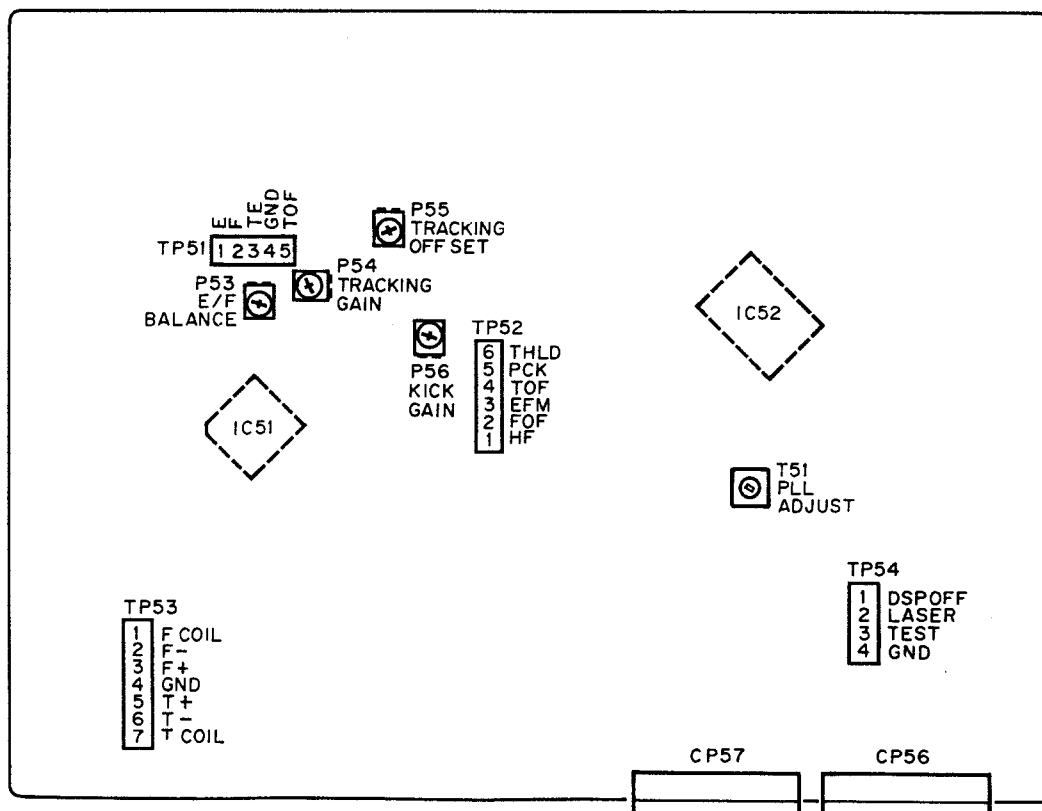
1. Place the test disc (Modern Wave II) on the Disc Tray, and play the fourth item on the disc.
2. Short the **TEST** test terminal (TP54-3) pin to **GND**, and **TROF** test terminal (TP51-5) pin to **GND** to turn tracking servo OFF.
3. Connect a DC Voltmeter and an oscilloscope via the low-pass filter like that shown in the illustration below to the **TE** (tracking error) test terminal (TP51-3) pin.



Measurement circuit

4. Adjust the potentiometer (P53) so that the DC Voltmeter reading is $0V \pm 50mV$ (oscilloscope waveform is symmetric to + and - about the zero level).

CD PLAYER ADJUSTMENT POINTS (TOP VIEW)

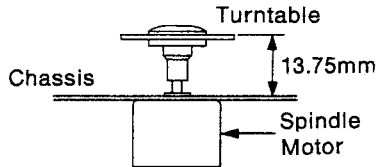


CD PLAYER ADJUSTMENT PROCEDURES (Continued)

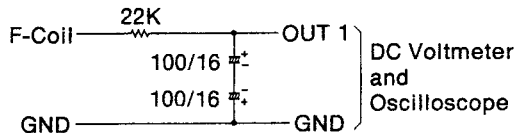
ADJUSTMENT OF TURNTABLE HEIGHT

This adjustment must be performed when the Spindle Motor is replaced.

1. The turntable should be mounted so that its upper surface is $13.75\text{mm} \pm 0.1\text{mm}$ above the surface of the chassis.



2. Place the test disc (Modern Wave II) on the turntable.
3. Connect a DC Voltmeter and an oscilloscope via the low-pass filter shown below to the **FOCUS COIL** test terminal (TP53-1) pin.

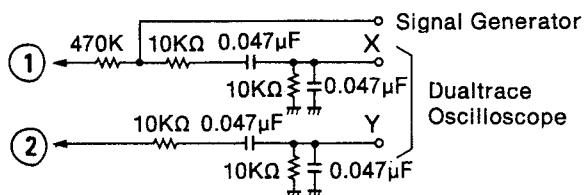


Measurement circuit

4. Push the POWER button to switch the power on and PLAY the First and Last Track No. on the disc.
5. If the DC Voltmeter reading is not in the ranges $0\text{V} \pm 0.2\text{V}$ for inner tracks and $0\text{V} \pm 0.35\text{V}$ for outer tracks, then the turntable height must be readjusted. Raise the turntable higher if the DC Voltmeter indicator is on the plus (+) side, and lower it if it is on the minus (-) side. (With this circuit 1V represents movement of approximately $0.60\text{mm} \sim 0.80\text{mm}$.)

TRACKING GAIN ADJUSTMENT

The measurement circuit diagrammed below must be used in order to adjust focus gain and tracking gain correctly.



Measurement circuit

1. Apply the potentiometer (P54) to the position of mechanical center position, and place the test disc (Modern Wave II) on the Disc Tray.
2. Connect the T minus (-) test terminal (TP53-6) pin to measurement circuit No.1 terminal.
3. Connect the T plus (+) test terminal (TP53-7) pin to measurement circuit No.2 terminal.
4. Push the POWER button to switch the power on and PLAY the first item on the test disc. Now apply a signal of 1100Hz and 0.3Vrms from the signal generator to the measurement circuit.
5. Set the oscilloscope to X-Y operation, and while observing the lissajous waveform adjust the potentiometer (P54) to the point where the phase difference is 90° as shown in Fig. 1 below.

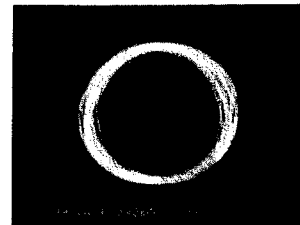


Fig. 1

NOTE:

If these two adjustments are performed, the **TRACKING OFFSET** must also be adjusted.

TRACKING OFFSET ADJUSTMENT

1. Push the POWER button to switch the power on and push the STOP button.
2. Connect a DC Voltmeter to the T (tracking coil) test terminal (TP53-7) pin and short the **TOF** test terminal (TP52-4) pin to **GND**.
3. In this condition check that the DC Voltmeter indicator is in the range $100\text{mV} \pm 20\text{mV}$, and adjust the potentiometer (P55) if it is not.

NOTE:

Perform this adjustment once again after adjusting the **E/F BALANCE** and **TRACKING GAIN** signals.

CD PLAYER ADJUSTMENT PROCEDURES (Continued)

KICK GAIN ADJUSTMENT

1. Place the test disc (Modern Wave II) on the Disc Tray.
2. Set the oscilloscope to NORMAL TRIG., set the EXT. TRIG. pin to external trigger, and input the trigger from **THLD** test terminal (TP52-6) pin to the oscilloscope.
3. Next connect the **HF** test terminal (TP52-1) pin to Channel 1 of the oscilloscope, and connect the **TE** test terminal (TP51-3) pin to Channel 2.
4. Push the **POWER** button to switch the power on and **PLAY** the first item on the test disc, and then push the **PAUSE** button. Now observe the waveforms for **HF** and **TE** with triggers applied from the **THLD** test terminal (TP52-6) pin. At this point, adjust the potentiometer (P56) so that a kick pulse waveform of about 1 to 1.3 tracks as shown in Fig. 2 below is obtained.

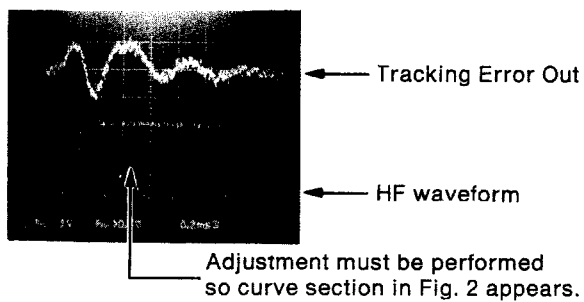


Fig. 2

4. The wave form shown in Figure 3 shows the optimum condition. Adjustment range of diffraction grating will be effective range if it shows within the range of $\pm 30^\circ$ as shown in Fig. 4.
5. Next, push the **PLAY** button, and set the oscilloscope in the DUAL MODE so that both **E** and **F** outputs can be seen. Set the **DISPLAY TIME** to 5 μ s. Now, adjustment is complete if the waveforms shown below in Fig. 5 (Channel 1 trigger) are obtained.

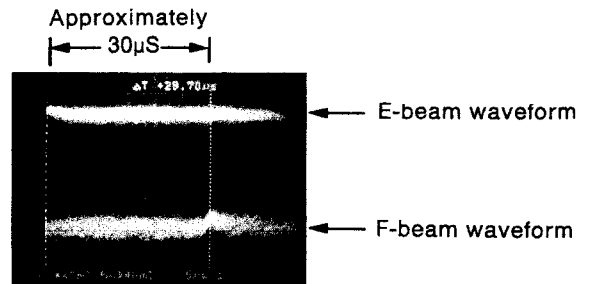


Fig. 5

DIFFRACTION GRID ADJUSTMENT

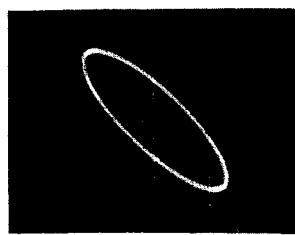
Diffraction grating adjustment is performed for a single pick-up, so if the following checks are performed adjustment is unnecessary.

1. Place the test disc (Modern Wave II) on the disc Tray, and play the fourth item on the disc. Shout the **TEST** terminal (TP54-3) pin to **GND**, and **TROF** test terminal (TP51-5) pin to **GND** to turn tracking servo OFF.
2. Next connect **E** test terminal (TP51-1) pin to channel 1 of the oscilloscope, and connect **F** test terminal (TP51-2) pin to channel 2.
3. Set the oscilloscope to X-Y operation, and while of serving the lissajous wave form check the wave form is a straight line with a phase difference of 180° as shown in Fig. 3.



(Optimum Figure)

Fig. 3



(Limiting Figure)

Fig. 4

CASSETTE DECK ELECTRICAL ADJUSTMENT

BEFORE ADJUSTMENT

If the tape surface which contacts the head, the capstan, and the pinch roller, etc., is stained, it will cause untable running of the tape, wow and flutter, imperfect recording and erasing, deterioration of tonal quality, and the tape jam around the capstan, etc. Occasionally clean each part as follows;

1. Cut off power
2. Open the cassette lid.
3. Wipe the head, the capstan, and the pinch roller with a cotton swab. If they are excessively stained, clean them with the swab soaked in absolute alcohol or cleaning liquid on the market.

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Frequency Counter
- Signal Oscillator
- Test Tapes
 - ± 3kHz Test Tape (Example: TEAC MTT-111) for Normal Tape Speed Adjustment
 - ± 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
 - ± 400Hz Test Tape (Example: TEAC MTT-150) for Playback Sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
 - ± Normal Tape (Example: TDK AC 223/AC 513)

SWITCH POSITIONS

Unless especially indicated, set each switch as follows;

- DOLBY Switch OFF
- SPEED Switch NORMAL
- TAPE SELECT Switch NORMAL
- DUBBING Switch OFF
- FUNCTION Switch TAPE

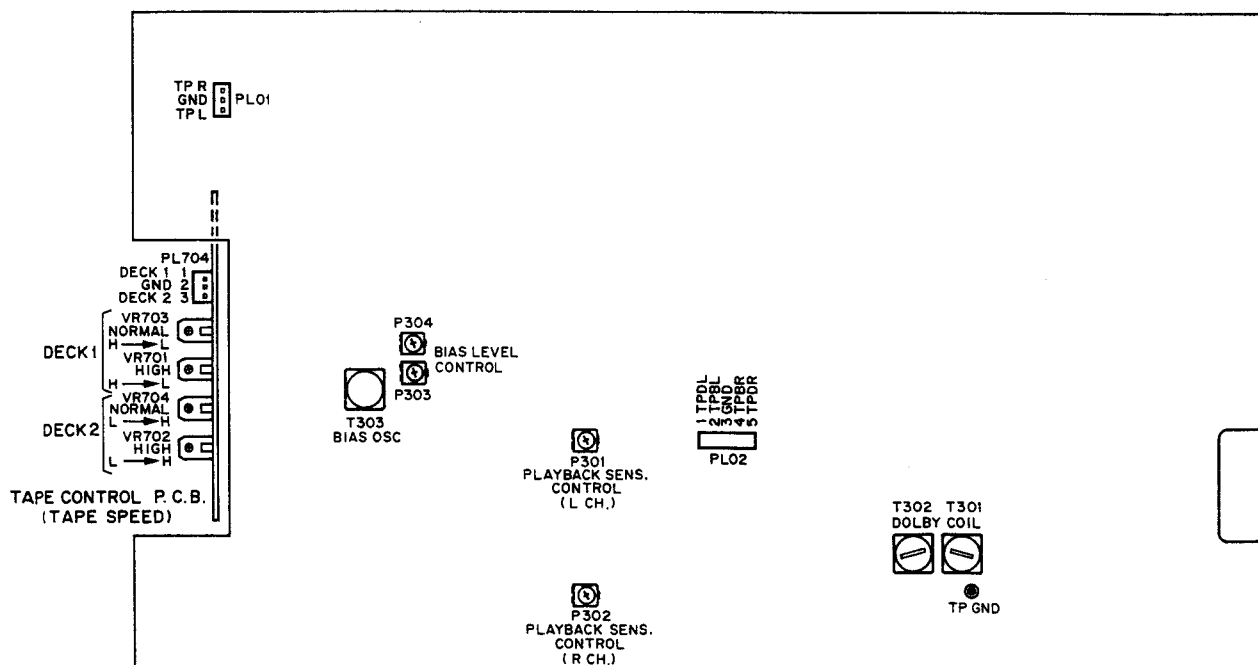
NORMAL TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the Dolby Test Point TPBL (Left Channel) or TPBR (Right Channel) and GND on the AMP TUNER P.C.Board.
2. Load Deck 1 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Adjust the potentiometer VR703 on the TAPE CONTROL P.C.Board so that the output becomes $3000\text{Hz} \pm 10\text{Hz}$.
4. Load Deck 2 with the same test tape.
5. Adjust the potentiometer VR704 so that the Deck 2 frequency should become as same as Deck 1.

HIGH SPEED TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the Dolby Test Point TPBL (Left Channel) or TPBR (Right Channel) and GND on the AMP TUNER P.C.Board.
2. Load Deck 1 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Short circuit High Speed Test Point PL704-1 (DECK1) and PL704-2 (GND) TAPE CONTROL P.C.Board. (The set will be set to the High Speed mode.)
4. Adjust the potentiometer VR701 on the TAPE CONTROL P.C.Board so that the reading on the frequency counter is $6000\text{Hz} \pm 20\text{Hz}$.
5. Load Deck 2 with the same test tape.
6. Short circuit High Speed Test Point PL704-3 (DECK 2) and PL704-2 (GND) on the TAPE CONTROL P.C.Board.
7. Adjust the potentiometer VR702, so that the Deck 2 frequency should become as same as Deck 1.

DECK CONTROL ADJUSTMENT POINTS



CASSETTE DECK ELECTRICAL ADJUSTMENT (Continued)

HEAD AZIMUTH ADJUSTMENT

1. Connect the dualtrace oscilloscope and AC VTVM to the Dolby Test Point TPBL and TPBR (Left and Right channel) on the AMP TUNER P.C.Board.

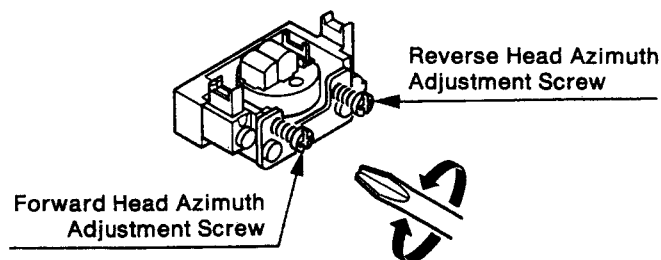
Then, set the dualtrace oscilloscope as follows:

- ‡ MODE CHOP (chopped)
- ‡ SOURCE INT (internal), CH1 or CH2
- ‡ SWEEP MODE AUTO (automatic)

NOTE:

Adjust the field on the oscilloscope with the VOLT. ADJ. and TIME ADJ.

2. Load Deck 1 with a test tape (Example: TEAC MTT-114) and set it in the forward playback mode.
3. Adjust the forward head azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the Right channel wave form overlaps with the Left channel one.
4. Set the unit in the reverse playback mode and adjust the wave forms as described above instructions with the reverse head azimuth adjustment screw as well as the forward.



5. Repeat the above several time.
6. Adjust Deck 2 in the same way as for Deck 1.
7. After the adjustment, secure the adjusting screw with paint or glue.

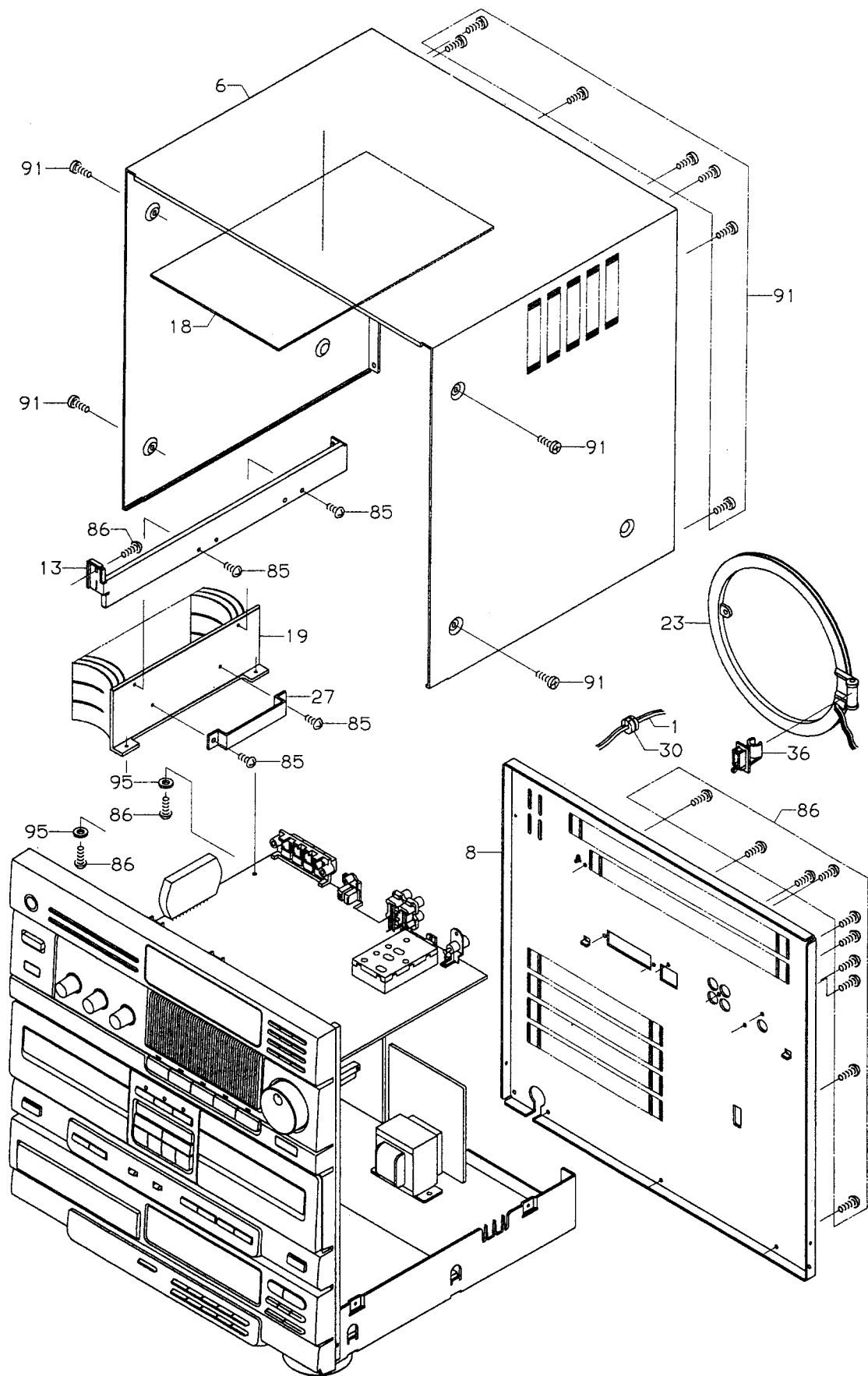
PLAYBACK SENSITIVITY ADJUSTMENT

1. Connect the oscilloscope and AC VTVM to the Dolby Test Point TPD L and TPDR (Left and Right channel) on the AMP TUNER P.C.Board.
2. Load Deck 2 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
3. Adjust potentiometer P301 (Left Channel), so that the output level becomes $245\text{mV} \pm 0.5\text{dB}$.
4. Adjust potentiometer P302 for the Right channel by following the same procedures as described for the Left channel.
5. After the adjustment, Load Deck 1 with a test tape (Example: TEAC MTT-150) and set it in to playback mode.
6. Checking the AC VTVM for indication $245\text{mV} \pm 0.5\text{dB}$.

RECORDING BIAS LEVEL ADJUSTMENT (DECK2)

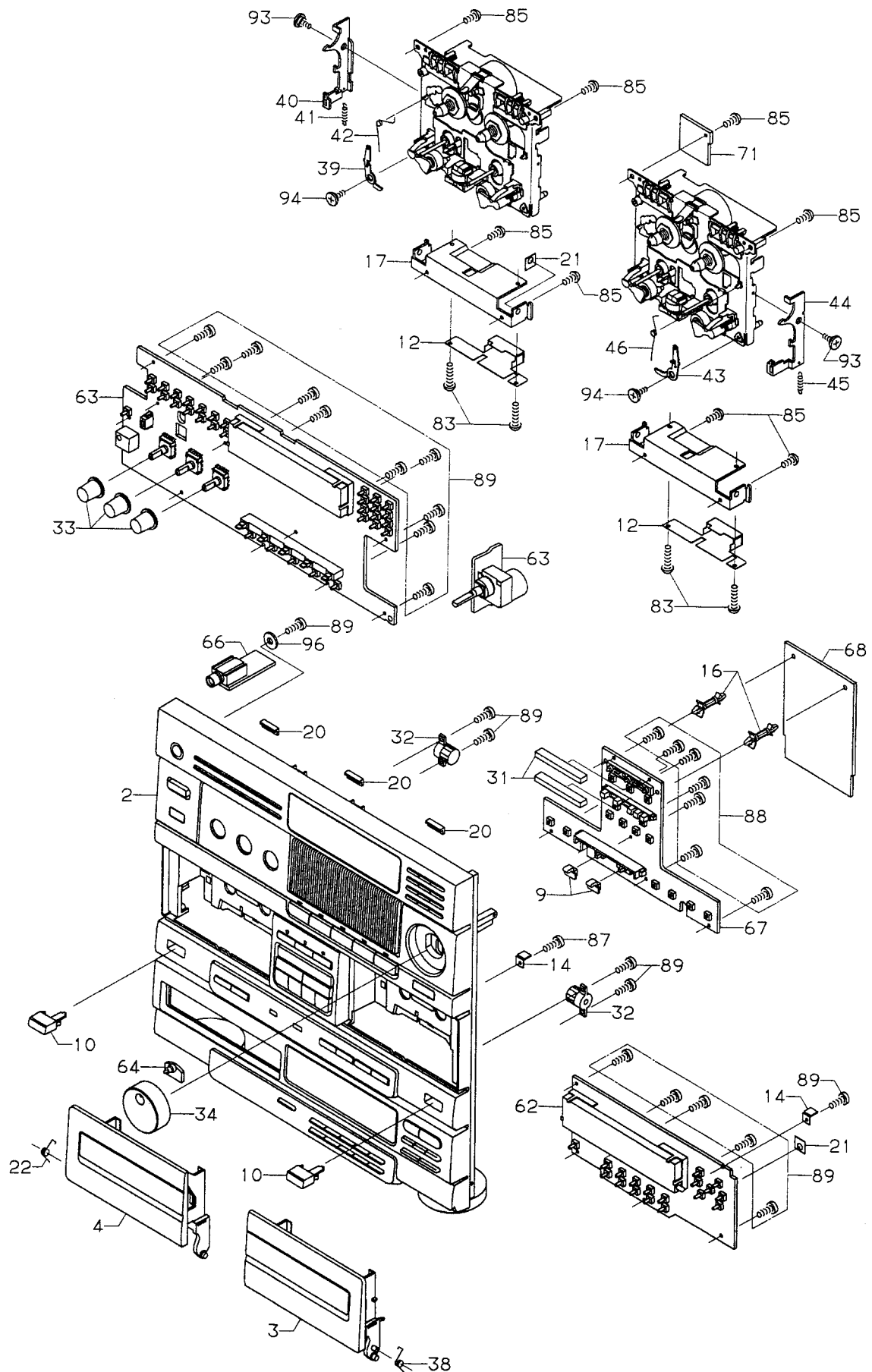
1. Connect the audio signal generator to the Left channel of the AUX input terminal, and the AC VTVM to the Dolby Test Point TPBL and TPBR (Left and Right channel) on the AMP TUNER P.C.Board.
2. Load Deck 2 with a normal tape (Example: TDK AC223) and set it in the recording mode.
3. Function switch to the AUX position.
4. Set the Input Level ATT so that the output level becomes 30mV and feed the signals of 1kHz and 10kHz from the audio signal generator into the unit. Then, record the signals on the tape.
5. Playback the recorded signals and adjust potentiometer P303 for the Left channel, so that the difference in output of the 1kHz and 10kHz signals become $\pm 0.5\text{dB}$.
6. Adjust potentiometer P304 for the Right channel by following the same procedures as described for the Left channel.

CABINET EXPLODED VIEW (1)



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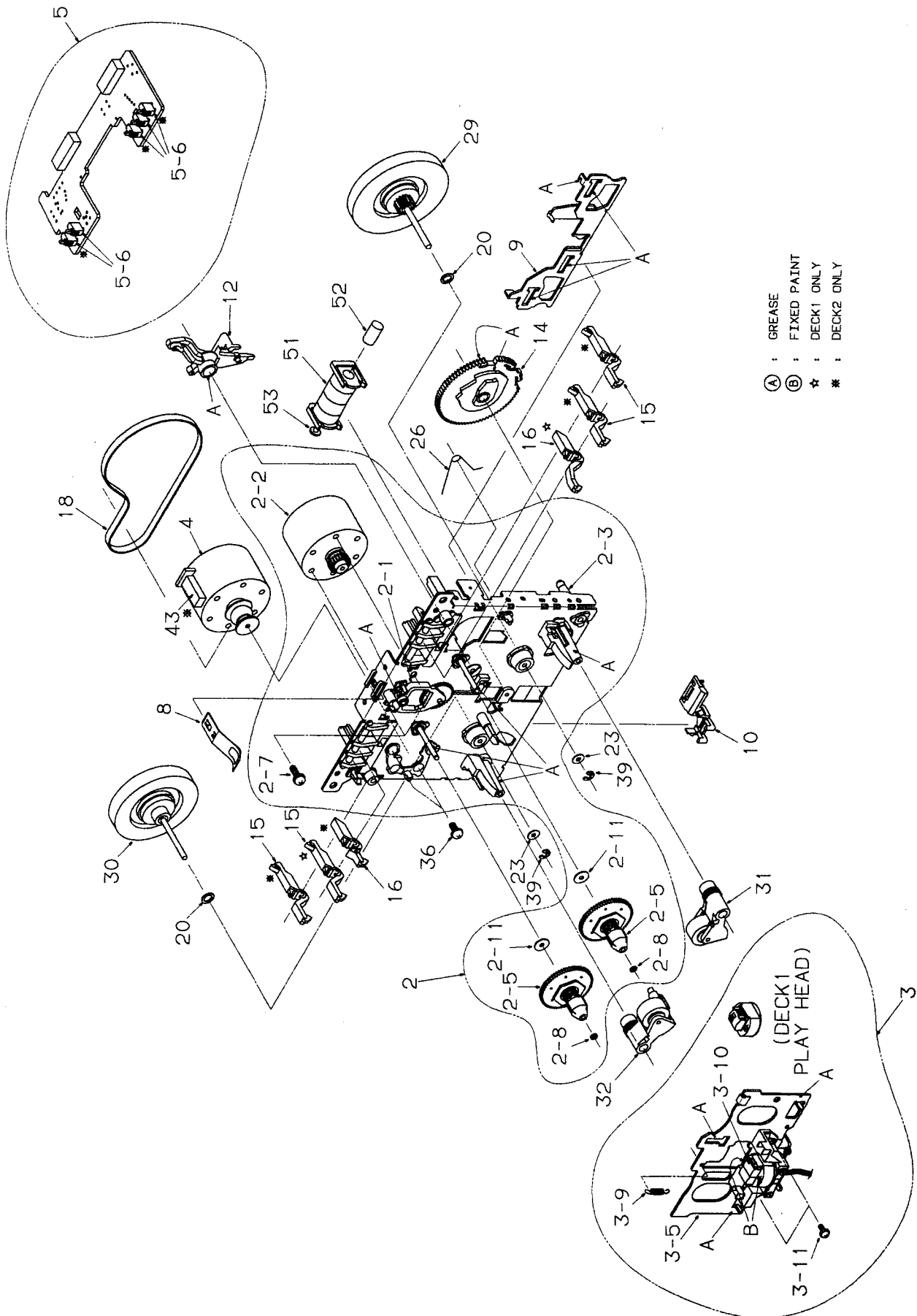
CABINET EXPLODED VIEW (3)



CABINET PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PACKAGE				33	620 208 5524	Knob-Balance (White)	3
	620 209 1808	Inner Carton (Black)	1	34	620 188 4579	Knob Volume (Black)	1
	620 209 1815	Inner Carton (White)	1	34	620 200 8592	Knob Volume (White)	1
	620 209 1822	Inner Carton (France)	1	35	620 117 6698	Bracket CD	1
	620 209 1730	Pad,Bottom	1	36	620 122 2210	Holder Antenna	1
	620 209 1754	Pad,Top	1	37	620 124 3437	Cushion Rubber	4
	620 209 9910	Pad,Plain,Cabinet	1	38	620 138 0002	Spring Lid Right	1
	620 209 9903	Spacer,Top	1	39	620 200 6635	Stopper,Eject,Left	1
	620 059 3533	Pad (Loop-ANT)	1	40	620 200 6710	Arm,Left	1
	620 148 5691	Poly Cover 100 x 250	1	41	620 202 8606	Spring,Tens	1
	620 189 6732	Patching Sheet	1	42	620 201 2179	Spring,Tors,Left	1
	620 189 6749	Sheet Polyethylene	1	43	620 200 6666	Stopper,Eject,Right	1
	620 152 7452	Serial No. Sheet	2	44	620 200 6734	Arm,Right	1
ACCESSORIES				45	620 202 8606	Spring,Tens	1
	411 123 3906	SCR TPG BIN 3X10	2	46	620 201 2186	Spring,Tors,Right	1
	620 207 7116	Remocon,M95	1	61	620 207 8779	Assy,PCB,CD Main,M95	1
	620 207 7093	Instruction Manual	1	62	620 207 8786	Assy,PCB,CD Cont.,M95	1
	620 208 9188	Label,Barcode (Black)	1	63	620 208 3209	Assy,PCB,Front Control	1
	620 208 9195	Label,Barcode (White)	1	64	620 208 3216	Assy,PCB,Volume IND.	1
	620 038 1673	FM Antenna Assy	1	65	620 208 3223	Assy,PCB,Amplifier Tuner	1
	620 057 8783	Bag Fan	1	66	620 208 3230	Assy,PCB,Head Phone (Black)	1
	620 113 5312	Stand Loop Antenna	1	66	620 209 0580	Assy,PCB,Head Phone (White)	1
or	620 113 5305	Stand Antenna	1	67	620 208 3247	Assy,PCB,Tape SW.	1
	620 148 4571	Poly Cover	1	68	620 208 3254	Assy,PCB,Tape Control	1
	620 152 2624	Certificate Card (Europe only)	1	69	620 208 3261	Assy,PCB,Power Trans	1
	620 152 7452	Serial No. Sheet	1	70	620 208 3278	Assy,PCB,Sub Trans	1
CABINET				71	620 210 1118	Assy,PCB,Rec DET	1
	620 209 8807	Sheet,Table	2	81	411 020 5904	SCR S-TPG BRZ 3X10	7
	620 061 2340	Notes (Laser)	1	82	411 020 6208	SCR S-TPG BRZ 3X12	2
	620 061 2401	Notes (Laser)	1	83	411 020 6604	SCR S-TPG BRZ 3X14	4
	620 061 2418	Notes (Laser)	1	84	411 020 7007	SCR S-TPG BRZ 3X20	3
	620 116 4503	Adhesive Film	1	85	411 020 7700	SCR S-TPG BRZ 3X6	23
	620 189 4424	Adhesive Sheet	3	86	411 020 8004	SCR S-TPG BRZ 3X8	13
	620 125 8424	Wire Band	11	87	411 021 1806	SCR S-TPG BIN 2.6X10	1
	620 152 7452	Serial No. Sheet	1	88	411 021 2704	SCR S-TPG BIN 2.6X6	7
	620 208 4046	Assy,Terminal,1P [CA1]	1	89	411 021 3107	SCR S-TPG BIN 2.6X8	21
	620 017 9102	Connector 1P Assy [CA2]	1	90	411 021 5903	SCR S-TPG BIN 3X6	3
1	△ 620 023 7550	Power Cord	1	91	411 021 6603	SCR S-TPG BIN 3X8 (Black)	11
2	620 207 0889	Assy,Cabinet (Black)	1	91	411 098 4205	SCR S-TPG BIN 3X8 (White)	11
2	620 208 4800	Assy,Cabinet (White)	1	92	412 024 6300	SPECIAL SCREW	4
3	620 207 0902	Assy,Lid,Cassette,Right (Black)	1	93	412 035 1400	SPECIAL SCREW	2
3	620 208 4916	Assy,Lid,Cassette,Right (White)	1	94	412 035 1509	SPECIAL SCREW	2
4	620 207 0919	Assy,Lid,Cassette,Left (Black)	1	95	411 008 1300	WASHER SPR 3	2
4	620 208 5173	Assy,Lid,Cassette,Left (White)	1	96	411 092 7806	WASHER Z 3.2X16X1	2
5	620 207 0612	Cover,Bottom	1	NOTES:			
6	620 207 5433	Cover (Black)	1	1. Parts order must contain Model Number, Part Number and Description.			
6	620 208 4794	Cover (White)	1	2. Ordering quantity of screws and resistors must be multiple of 10 pcs.			
7	620 206 5823	Decoration,CD (Black)	1	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">PRODUCT SAFETY NOTICE</p> <p>Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol △ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with △, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.</p> </div>			
7	620 208 5357	Decoration,CD (White)	1				
8	620 209 0610	Panel,Rear	1				
9	620 209 9200	Knob,Dolby (Black)	2				
9	620 208 5371	Knob,Dolby (White)	2				
10	620 200 9278	Knob,Eject (Black)	2				
10	620 208 5388	Knob,Eject (White)	2				
11	620 207 0506	Chassis	1				
12	620 200 6352	Bracket-M,Lid Cassette	2				
13	620 207 0544	Bracket-M,Heat Sink	1				
14	620 208 8587	Bracket-M	2				
15	620 209 3789	Bracket-M,Chassis	1				
16	620 200 9988	Post,Support,PCB	2				
17	620 202 2024	Shield	2				
18	620 209 1860	Insulator	1				
19	620 207 1213	Heat Sink	1				
20	620 209 6056	Spacer	3				
21	620 209 9774	Spacer,CD P.C.B.	3				
22	620 200 6338	Spring,Tors,Left	1				
23	620 199 8337	Loop Antenna,LA300B	1				
24	△ 620 207 8458	Power Trans,SEV,120VA	1				
25	△ 620 207 8465	Power Trans,SEV,8VA	1				
26	620 047 3866	Leg	2				
27	620 048 2608	Metal Mount (IC)	1				
28	620 050 4409	Mount P.C.B	3				
29	620 051 4149	Screw C-Tite 4X8 Z1	6				
30	620 053 2136	Bushing (Power Cord)	1				
31	620 053 6844	Shelter	2				
32	620 083 1789	Gear Eject Assy	2				
33	620 183 8824	Knob-Balance (Black)	3				

CASSETTE DECK MECHANISM EXPLODED VIEW



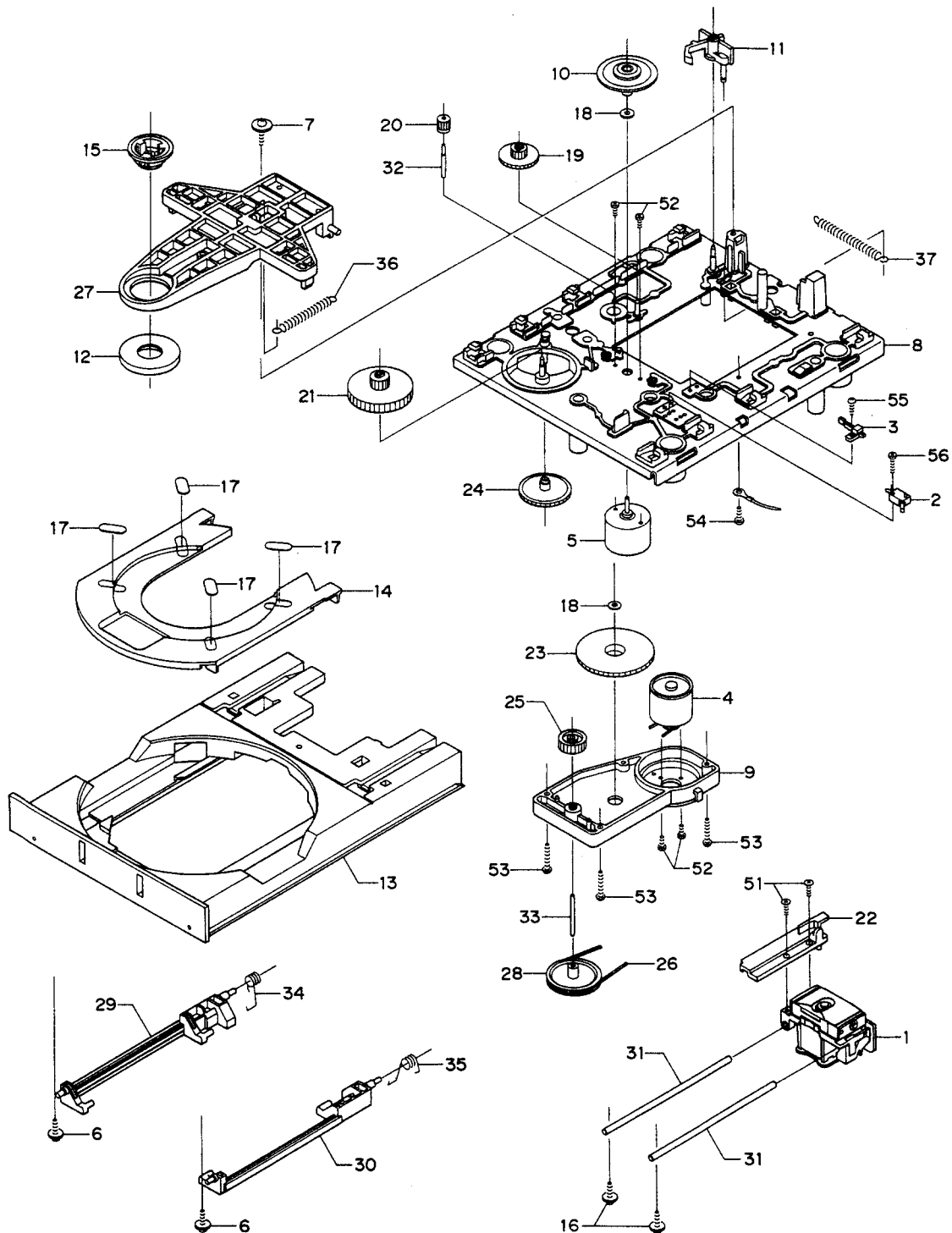
CASSETTE DECK MECHANISM PARTS LIST

Ref. No.	Part No.	Description	Q'ty
MECHANISM			
2	620 201 5231	Block Chassis	2
2 -1	620 201 5248	Block Idler	1
2 -2	620 201 5262	Block Motor Reel [M103/M104]	1
2 -3	620 201 5323	Block Base Chassis	1
2 -5	620 201 5330	Block Base Reel	2
2 -7	620 201 5347	Screw	2
2 -8	620 201 5354	Washer	2
2 -11	620 201 5361	Polyslider	2
3	620 201 5385	Block Plate Head (DECK 1)	1
3 -5	620 201 5392	Base Head	1
3 -9	620 201 5422	Spring Base Head	1
3 -10	620 201 5446	Head (HADKH2513) [HD101]	1
3 -11	620 201 5453	Screw	2
3	620 201 5378	Block Plate Head (DECK 2)	1
3 -5	620 201 5392	Base Head	1
3 -9	620 201 5422	Spring Base Head	1
3 -10	620 201 5439	Head (HADKH5557) [HD102]	1
3 -11	620 201 5453	Screw	2
4	620 201 5460	Block Motor Main [M101/M102]	2
5	620 201 5484	Block P.C.B. Control (DECK 1)	1
5 -17	620 201 5491	Push Switch	2
5	620 208 7825	Block P.C.B. Control (DECK 2)	1
5 -17	620 201 5491	Push Switch	4
8	620 204 0158	Spring Cassette Pushing	2
9	620 201 5514	Slide Plate	2
10	620 201 5521	Lead Holder	2
12	620 201 5538	Arm Play	2
13	620 201 5545	Gear,Cam	2
15	620 201 5552	Lever (REC SW) (DECK 1)	1
15	620 201 5552	Lever (REC SW) (DECK 2)	3
16	620 201 5583	Lever (L) (Pack SW) (DECK 1)	1
16	620 201 5576	Lever (R) (Pack SW) (DECK 2)	1
18	620 201 5613	Belt Main	2
20	620 201 5620	Polyslider	4
23	620 201 5637	Polyslider	4
26	620 201 5644	Spring Slide	2
29	620 201 5651	ASS'Y Flywheel	2
30	620 201 5668	ASS'Y Flywheel	2
31	620 201 5675	ASS'Y Pinch Roller (R)	2
32	620 201 5682	ASS'Y Pinch Roller (L)	2
36	620 201 5699	Screw	4
39	620 201 5705	E-Ring	2
43	620 209 0283	Cushion Holder	1
51	620 201 5712	Block Solenoid	2
52	620 201 5729	Iron Core	2
53	620 201 5736	Plunger [PL 1/PL 2]	2

NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

CD PLAYER MECHANISM EXPLODED VIEW



CD PLAYER MECHANISM PARTS LIST

Ref. No.	Part No.	Description	Q'ty
CD PLAYER MECHANISM			
	620 188 6184	Connector 9P Assy	1
	620 202 7210	Label, Identification	1
	620 125 8424	Wire Band	2
1	620 201 5774	Assy, Pickup, Laser, 90	1
2	620 015 3744	Lever Switch 1P1T (Lid Open)	1
3	620 016 2401	Leaf Switch (Pickup Inner)	1
4	620 189 0426	Motor (Sled Motor) [M2]	1
5	620 189 0433	Motor (Spindle Motor) [M3]	1
6	620 051 4279	Screw 3X8	2
7	620 051 4316	Screw 3X10	1
8	620 081 5963	Chassis Assy	1
9	620 185 9898	Chassis Sub Assy	1
10	620 082 7478	Turntable Assy	1
11	620 083 3974	Arm Assy	1
12	620 085 6553	Magnet Assy	1
13	620 201 5101	Table, Loading	1
14	620 185 9911	Table CD	1
15	620 119 1530	Holder Disc	1
16	620 123 0772	Screw Washer 2.6X6	2
17	620 184 9905	Pad Disc (Felt)	4
18	620 125 1487	Washer M1.9X7.0X0.25	2
19	620 127 9429	Gear Pickup	1
20	620 127 9436	Gear Motor	1
21	620 127 9467	Gear Table Load	1
22	620 127 9474	Gear Pickup Rack	1
23	620 185 9973	Gear Load Pickup	1
24	620 185 9980	Gear Load T.L	1
25	620 185 9997	Gear	1
26	620 186 0009	Belt	1
27	620 129 5986	Flap Disc Cramp	1
28	620 186 0023	Pulley	1
29	620 186 0030	Lever Hold Disc Left	1
30	620 186 0047	Lever Hold Disc Right	1
31	620 133 4081	Shaft Pickup	2
32	620 133 4098	Shaft Gear S	1
33	620 186 0054	Shaft Pulley	1
34	620 186 0061	Spring Lever Left	1
35	620 186 0078	Spring Lever Right	1
36	620 139 1558	Spring Flap Disc CR	1
37	620 139 1565	Spring Arm	1
51	411 108 0104	SCR FLT PCS 2X5	2
52	411 099 0701	SCR PAN PCS 1.7X3	4
53	411 020 5409	SCR S-TPG BRZ 2.6X14	3
54	411 020 7700	SCR S-TPG BRZ 3X6	1
55	411 022 7807	SCR S-TPG PAN 2X6	1
56	411 104 6605	SCR TPG PAN 1.7X10	1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,CD MAIN,M95				D57	407 125 8209	DIODE HSS271	1
61	620 207 8779	Assy,PCB,CD Main,M95	1	or	407 008 0405	DIODE GMB01-BT	1
	411 020 8004	SCR S-TPG BRZ 3X8	1	D60	407 005 3805	DIODE DS442-BT	1
	620 053 7247	Plate Heat Sink	1	D61	407 005 3805	DIODE DS442-BT	1
CN51	620 020 5801	Socket Jumper 5P	1	D62	407 005 3805	DIODE DS442-BT	1
CN52	620 017 5036	Socket Jumper 5P	1	D63	407 005 3805	DIODE DS442-BT	1
CN53	620 021 8337	Plug 6P	1	D64	407 125 8209	DIODE HSS271	1
CN54	620 021 8610	Plug 6P	1	or	407 008 0405	DIODE GMB01-BT	1
CN55	620 021 8139	Plug 9P	1	D65	407 125 8209	DIODE HSS271	1
CP56	620 207 9103	Connector-P,TYC-B15P-A1	1	or	407 008 0405	DIODE GMB01-BT	1
CP57	620 207 9103	Connector-P,TYC-B15P-A1	1	D66	407 125 8209	DIODE HSS271	1
P53	620 204 9335	Potentiometer,100KB,TP	1	or	407 008 0405	DIODE GMB01-BT	1
P54	620 207 9127	Potentiometer,22KB,TP	1	D67	407 125 8209	DIODE HSS271	1
P55	620 207 9127	Potentiometer,22KB,TP	1	or	407 008 0405	DIODE GMB01-BT	1
P56	620 204 9335	Potentiometer,100KB,TP	1	D68	407 005 3805	DIODE DS442-BT	1
TP51	620 021 5589	Plug 5P	1	D69	407 005 8602	DIODE ERA15-02	1
TP52	620 021 3950	Plug 6P	1	D70	407 005 8602	DIODE ERA15-02	1
TP53	620 021 4377	Plug 7P	1	D71	407 005 8602	DIODE ERA15-02	1
TP54	620 021 4346	Plug 4P	1	D72	407 005 8602	DIODE ERA15-02	1
T51	620 028 8699	OSC Coil	1	D73	407 005 3805	DIODE DS442-BT	1
or	620 028 8774	OSC Coil	1	D74	407 005 3805	DIODE DS442-BT	1
X51	620 200 8967	Resonator,Xtal,17.2872MHz	1	D75	407 005 8602	DIODE ERA15-02	1
IC51	409 124 6507	IC LA9200NM	1	D76	407 005 8602	DIODE ERA15-02	1
IC52	409 202 5804	IC LC7860K	1	D77	407 136 9806	ZENER DIODE GZE24B-BT	1
IC53	409 123 7109	IC LC3517BS-15	1	D78	407 136 4108	ZENER DIODE GZE6.2B-BT	1
IC54	409 018 5500	IC LA6510	1	D79	407 136 2500	ZENER DIODE GZE3.6B-BT	1
IC55	409 018 5500	IC LA6510	1	D80	407 125 8209	DIODE HSS271	1
IC56	409 169 7804	IC NJM78M05FA	1	or	407 008 0405	DIODE GMB01-BT	1
IC57	409 040 1105	IC NJM79L05A	1	D81	407 005 3805	DIODE DS442-BT	1
IC58	409 206 9006	IC LC97000P-288	1	D88	407 125 8209	DIODE HSS271	1
IC59	409 057 4403	IC UPC4570C	1	or	407 008 0405	DIODE GMB01-BT	1
or	409 018 5203	IC LA6462D	1	D89	407 005 3805	DIODE DS442-BT	1
or	409 070 4701	IC NJM2068D	1	Q67	407 000 3503	VARACTOR DI SVC211SP	1
Q51	405 019 3804	TR 2SC536-G-NP-AA	1	C51	403 049 5508	ELECT 10U M 50V	1
or	405 019 2708	TR 2SC536-F-NP-AA	1	C52	403 016 2004	CERAMIC 2.2P K 50V	1
or	405 019 2807	TR 2SC536-F-SPA-AC	1	C53	403 009 1809	CERAMIC 10P J 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C54	403 057 0908	POLYESTER 0.01U K 50V	1
Q52	405 004 5004	TR 2SA608-G-NP-AA	1	C55	403 048 7701	ELECT 0.47U M 50V	1
or	405 004 4502	TR 2SA608-F-NP-AA	1	C56	403 071 2001	CERAMIC 180P K 50V	1
or	405 004 4601	TR 2SA608-F-SPA-AC	1	C57	403 030 6309	CERAMIC 68P J 50V	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1	C58	403 030 6309	CERAMIC 68P J 50V	1
Q53	405 019 3804	TR 2SC536-G-NP-AA	1	C59	403 086 1907	NP-ELECT 0.47U M 50V	1
or	405 019 2708	TR 2SC536-F-NP-AA	1	C60	403 073 7004	CERAMIC 470P K 50V	1
or	405 019 2807	TR 2SC536-F-SPA-AC	1	C61	403 044 0300	ELECT 47U M 16V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C62	403 073 7004	CERAMIC 470P K 50V	1
Q54	405 019 3804	TR 2SC536-G-NP-AA	1	C63	403 121 9509	CERAMIC 0.1U Z 50V	1
or	405 019 2708	TR 2SC536-F-NP-AA	1	C64	403 067 8208	MT-COMPO 0.068U J 50V	1
or	405 019 2807	TR 2SC536-F-SPA-AC	1	C65	403 121 9509	CERAMIC 0.1U Z 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C66	403 022 7703	CERAMIC 33P J 50V	1
Q55	405 021 0600	TR 2SD1012-G-SPA-AC	1	C67	403 022 7703	CERAMIC 33P J 50V	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1	C68	403 001 1906	CERAMIC 0.01U M 16V	1
Q56	405 018 2600	TR 2SC3400-AC	1	C69	403 071 6207	CERAMIC 220P K 50V	1
Q57	405 018 2600	TR 2SC3400-AC	1	C70	403 067 6204	MT-COMPO 0.15U J 50V	1
Q58	405 018 2600	TR 2SC3400-AC	1	C71	403 086 2706	NP-ELECT 1U M 50V	1
Q59	405 004 5004	TR 2SA608-G-NP-AA	1	C72	403 086 1600	NP-ELECT 0.33U M 50V	1
or	405 004 4502	TR 2SA608-F-NP-AA	1	C73	403 071 6207	CERAMIC 220P K 50V	1
or	405 004 4601	TR 2SA608-F-SPA-AC	1	C74	403 025 7304	CERAMIC 4.7P K 50V	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1	C75	403 121 9509	CERAMIC 0.1U Z 50V	1
Q60	405 021 0600	TR 2SD1012-G-SPA-AC	1	C76	403 038 7209	ELECT 220U M 6.3V	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1	C77	403 038 7209	ELECT 220U M 6.3V	1
Q61	405 021 0600	TR 2SD1012-G-SPA-AC	1	C78	403 003 8705	CERAMIC 0.039U K 25V	1
or	405 021 0907	TR 2SD1012-H-SPA-AC	1	C79	403 071 6207	CERAMIC 220P K 50V	1
Q62	405 004 5004	TR 2SA608-G-NP-AA	1	C80	403 087 2507	STYRENE 1000P J 50V	1
or	405 004 4502	TR 2SA608-F-NP-AA	1	C81	403 057 0908	POLYESTER 0.01U K 50V	1
or	405 004 4601	TR 2SA608-F-SPA-AC	1	C82	403 121 9509	CERAMIC 0.1U Z 50V	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1	C83	403 149 7105	POLYPRO 680P J 100V	1
Q63	405 004 5004	TR 2SA608-G-NP-AA	1	C84	403 003 6701	CERAMIC 0.033U K 25V	1
or	405 004 4502	TR 2SA608-F-NP-AA	1	C85	403 121 9509	CERAMIC 0.1U Z 50V	1
or	405 004 4601	TR 2SA608-F-SPA-AC	1	C86	403 048 3208	ELECT 0.22U M 50V	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1	C87	403 038 2402	ELECT 100U M 6.3V	1
Q64	405 019 3804	TR 2SC536-F-NP-AA	1	C88	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 019 2708	TR 2SC536-F-NP-AA	1	C89	403 121 9509	CERAMIC 0.1U Z 50V	1
or	405 019 2807	TR 2SC536-F-SPA-AC	1	C90	403 121 9509	CERAMIC 0.1U Z 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C91	403 086 2706	NP-ELECT 1U M 50V	1
Q65	405 018 2600	TR 2SC3400-AC	1	C92	403 121 9509	CERAMIC 0.1U Z 50V	1
D51	407 005 3805	DIODE DS442-BT	1	C93	403 002 6207	CERAMIC 0.012U K 25V	1
D52	407 005 3805	DIODE DS442-BT	1	C94	403 001 5102	CERAMIC 2200P M 16V	1
D53	407 005 3805	DIODE DS442-BT	1	C95	403 002 6207	CERAMIC 0.012U K 25V	1
D54	407 005 3805	DIODE DS442-BT	1	C96	403 001 5102	CERAMIC 2200P M 16V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty	
C97	403 086 2706	NP-ELECT	1U M 50V	1	R88	401 025 1902	CARBON 15K JA 1/6W	1
C98	403 086 2706	NP-ELECT	1U M 50V	1	R89	401 026 1307	CARBON 27K JA 1/6W	1
C99	403 050 3708	ELECT	22U M 50V	1	R90	401 025 8703	CARBON 220K JA 1/6W	1
C100	403 050 3708	ELECT	22U M 50V	1	R91	401 026 4902	CARBON 330K JA 1/6W	1
C101	403 121 9509	CERAMIC	0.1U Z 50V	1	R92	401 026 1307	CARBON 27K JA 1/6W	1
C102	403 121 9509	CERAMIC	0.1U Z 50V	1	R93	401 011 8908	CARBON 1 JA 1/4W	1
C103	403 001 1906	CERAMIC	0.01U M 16V	1	R94	401 015 6504	CARBON 2.2 JA 1/4W	1
C104	403 051 2106	ELECT	4.7U M 50V	1	R95	401 026 9907	CARBON 4.7K JA 1/6W	1
C105	403 049 5508	ELECT	10U M 50V	1	R96	401 026 4308	CARBON 3.3K JA 1/6W	1
C106	403 050 1308	ELECT	2.2U M 50V	1	R97	401 025 7409	CARBON 220 JA 1/6W	1
C109	403 003 3700	CERAMIC	0.022U Z 25V	1	R98	401 025 8208	CARBON 22K JA 1/6W	1
C110	403 121 9509	CERAMIC	0.1U Z 50V	1	R99	401 025 7805	CARBON 2.2K JA 1/6W	1
C111	403 038 7209	ELECT	220U M 6.3V	1	R100	401 025 1902	CARBON 15K JA 1/6W	1
C112	403 121 9509	CERAMIC	0.1U Z 50V	1	R101	401 024 7400	CARBON 10K JA 1/6W	1
C113	403 038 7209	ELECT	220U M 6.3V	1	R102	401 024 7707	CARBON 100K JA 1/6W	1
C114	403 008 5105	CERAMIC	10P D 50V	1	R103	401 024 7707	CARBON 100K JA 1/6W	1
C115	403 008 5105	CERAMIC	10P D 50V	1	R104	401 025 8208	CARBON 22K JA 1/6W	1
C116	403 121 9509	CERAMIC	0.1U Z 50V	1	R105	401 025 8208	CARBON 22K JA 1/6W	1
C117	403 121 9509	CERAMIC	0.1U Z 50V	1	R106	401 025 8208	CARBON 22K JA 1/6W	1
C118	403 117 0404	NP-ELECT	22U M 16V	1	R107	401 027 5502	CARBON 6.8K JA 1/6W	1
C119	403 117 0404	NP-ELECT	22U M 16V	1	R108	401 025 7805	CARBON 2.2K JA 1/6W	1
C120	403 069 1207	CERAMIC	1000P K 50V	1	R109	401 024 7400	CARBON 10K JA 1/6W	1
C121	403 069 1207	CERAMIC	1000P K 50V	1	R110	401 025 8703	CARBON 220K JA 1/6W	1
C122	403 001 1906	CERAMIC	0.01U M 16V	1	R111	401 024 7400	CARBON 10K JA 1/6W	1
C123	403 001 1906	CERAMIC	0.01U M 16V	1	R112	401 015 6504	CARBON 2.2 JA 1/4W	1
C124	403 044 0300	ELECT	47U M 16V	1	R113	401 015 6504	CARBON 2.2 JA 1/4W	1
C125	403 044 0300	ELECT	47U M 16V	1	R114	401 024 7707	CARBON 100K JA 1/6W	1
C126	403 049 5508	ELECT	10U M 50V	1	R115	401 026 4605	CARBON 33K JA 1/6W	1
C127	403 001 1906	CERAMIC	0.01U M 16V	1	R116	401 025 6709	CARBON 200K JA 1/6W	1
C128	403 043 3104	ELECT	2200U M 16V	1	R117	401 017 2801	CARBON 27K JA 1/4W	1
C129	403 043 3104	ELECT	2200U M 16V	1	R118	401 024 7707	CARBON 100K JA 1/6W	1
C130	403 072 2703	CERAMIC	0.022U Z 50V	1	R119	401 026 4605	CARBON 33K JA 1/6W	1
C131	403 072 2703	CERAMIC	0.022U Z 50V	1	R120	401 024 7707	CARBON 100K JA 1/6W	1
C132	403 052 8107	ELECT	100U M 35V	1	R121	401 017 2801	CARBON 27K JA 1/4W	1
C133	403 049 7304	ELECT	100U M 50V	1	R122	401 020 2904	CARBON 47K JA 1/4W	1
C134	403 049 5508	ELECT	10U M 50V	1	R123	401 025 8208	CARBON 22K JA 1/6W	1
C135	403 121 9509	CERAMIC	0.1U Z 50V	1	R124	401 025 8208	CARBON 22K JA 1/6W	1
C136	403 121 9509	CERAMIC	0.1U Z 50V	1	R125	401 027 5502	CARBON 6.8K JA 1/6W	1
C137	403 049 1708	ELECT	1U M 50V	1	R126	401 025 7805	CARBON 2.2K JA 1/6W	1
C138	403 038 7209	ELECT	220U M 6.3V	1	R127	401 024 7004	CARBON 1K JA 1/6W	1
C139	403 046 4603	ELECT	33U M 25V	1	R128	401 027 0309	CARBON 47K JA 1/6W	1
C140	403 038 7209	ELECT	220U M 6.3V	1	R129	401 024 7004	CARBON 1K JA 1/6W	1
C148	403 049 5508	ELECT	10U M 50V	1	R130	401 027 5502	CARBON 6.8K JA 1/6W	1
R51	401 012 5708	CARBON	1K JA 1/4W	1	R131	401 027 5502	CARBON 6.8K JA 1/6W	1
R52	401 026 0003	CARBON	24K JA 1/6W	1	R132	401 025 8208	CARBON 22K JA 1/6W	1
R53	401 024 7400	CARBON	10K JA 1/6W	1	R133	401 026 4308	CARBON 3.3K JA 1/6W	1
R54	401 024 7400	CARBON	10K JA 1/6W	1	R134	401 012 5708	CARBON 1K JA 1/4W	1
R55	401 021 3009	CARBON	5.6K JA 1/4W	1	R135	401 012 5708	CARBON 1K JA 1/4W	1
R56	401 012 4503	CARBON	100 JA 1/4W	1	R136	401 023 1706	CARBON 820 JA 1/4W	1
R57	401 025 7409	CARBON	220 JA 1/6W	1	R137	401 023 1706	CARBON 820 JA 1/4W	1
R58	401 024 7707	CARBON	100K JA 1/6W	1	R138	401 024 8001	CARBON 1M JA 1/6W	1
R59	401 024 7707	CARBON	100K JA 1/6W	1	R139	401 026 9303	CARBON 47 JA 1/6W	1
R60	401 025 1902	CARBON	15K JA 1/6W	1	R140	401 026 1802	CARBON 2.7M JA 1/6W	1
R61	401 027 2600	CARBON	5.6K JA 1/6W	1	R141	401 026 1802	CARBON 2.7M JA 1/6W	1
R63	401 025 8208	CARBON	22K JA 1/6W	1	R142	401 024 7004	CARBON 1K JA 1/6W	1
R64	401 016 5803	CARBON	220K JA 1/4W	1	R143	401 024 7004	CARBON 1K JA 1/6W	1
R65	401 017 3808	CARBON	270K JA 1/4W	1	R144	401 025 8703	CARBON 220K JA 1/6W	1
R66	401 017 3808	CARBON	270K JA 1/4W	1	R145	401 025 8703	CARBON 220K JA 1/6W	1
R67	401 013 7305	CARBON	120K JA 1/4W	1	R146	401 027 5502	CARBON 6.8K JA 1/6W	1
R68	401 018 4903	CARBON	33K JA 1/4W	1	R147	401 027 5502	CARBON 6.8K JA 1/6W	1
R69	401 012 4503	CARBON	100 JA 1/4W	1	R148	401 026 9303	CARBON 47 JA 1/6W	1
R70	401 026 4605	CARBON	33K JA 1/6W	1	R149	401 026 9303	CARBON 47 JA 1/6W	1
R71	401 027 0309	CARBON	47K JA 1/6W	1	R150	401 027 0507	CARBON 470K JA 1/6W	1
R72	401 026 4308	CARBON	3.3K JA 1/6W	1	R151	401 027 0507	CARBON 470K JA 1/6W	1
R73	401 027 0309	CARBON	47K JA 1/6W	1	R152	402 015 8505	FUSIBLE RES 22 J- 1/4W	1
R74	401 026 1604	CARBON	270K JA 1/6W	1	R153	401 019 1901	CARBON 3.9K JA 1/4W	1
R75	401 027 0309	CARBON	47K JA 1/6W	1	R154	401 024 6700	CARBON 100 JA 1/6W	1
R76	401 025 8208	CARBON	22K JA 1/6W	1	R155	401 024 6700	CARBON 100 JA 1/6W	1
R77	401 024 9305	CARBON	1.2K JA 1/6W	1	R156	401 024 7400	CARBON 10K JA 1/6W	1
R78	401 015 6504	CARBON	2.2 JA 1/4W	1	R157	401 026 9600	CARBON 470 JA 1/6W	1
R79	401 015 6504	CARBON	2.2 JA 1/4W	1	R158	401 025 8208	CARBON 22K JA 1/6W	1
R80	401 025 2305	CARBON	150K JA 1/6W	1	R159	401 025 8208	CARBON 22K JA 1/6W	1
R81	401 024 7707	CARBON	100K JA 1/6W	1	R160	401 025 7409	CARBON 220 JA 1/6W	1
R82	401 025 7805	CARBON	2.2K JA 1/6W	1	R161	401 024 6403	CARBON 10 JA 1/6W	1
R83	401 026 0607	CARBON	270 JA 1/6W	1	R162	401 027 0309	CARBON 47K JA 1/6W	1
R84	401 016 5803	CARBON	220K JA 1/4W	1	R163	401 025 8208	CARBON 22K JA 1/6W	1
R85	401 024 9701	CARBON	12K JA 1/6W	1	R164	401 026 4308	CARBON 3.3K JA 1/6W	1
R86	401 026 7408	CARBON	39K JA 1/6W	1	R165	401 016 4806	CARBON 22K JA 1/4W	1
R87	401 026 7408	CARBON	39K JA 1/6W	1	R166	402 016 4506	FUSIBLE RES 10 J- 1/2W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
R167	402 016 4506	FUSIBLE RES 10 J- 1/2W	1	ASSY,PCB,FRONT CONTROL			
R172	401 026 1000	CARBON 2.7K JA 1/6W	1	63	620 208 3209	Assy,PCB,Front Control	1
R173	401 026 1000	CARBON 2.7K JA 1/6W	1		620 206 5793	Spacer,LED	1
R184	401 012 8105	CARBON 100K JA 1/4W	1		620 206 5939	Spacer,Mute	1
R185	401 027 3201	CARBON 560K JA 1/6W	1		620 206 5960	Spacer,FL	1
R186	401 027 3003	CARBON 56K JA 1/6W	1		620 200 3023	Fluorescent Tube,TU	1
R187	401 012 8105	CARBON 100K JA 1/4W	1	CA801	620 191 7079	Connector 1P Assy	1
R188	401 027 3201	CARBON 560K JA 1/6W	1	CN801	620 205 5923	Connector-S,10P,52170	1
R189	401 027 0309	CARBON 47K JA 1/6W	1	CN802	620 205 5879	Connector-S,7P,52170	1
R190	401 027 5205	CARBON 680 JA 1/6W	1	CN803	620 205 5879	Connector-S,7P,52170	1
R191	401 024 7400	CARBON 10K JA 1/6W	1	CN804	620 205 5886	Connector-S,8P,52170	1
R192	401 015 6504	CARBON 2.2 JA 1/4W	1	L801	620 203 6137	Inductor 10UH K	1
R193	401 015 6504	CARBON 2.2 JA 1/4W	1	RE801	620 200 0909	Converter,Remote,DET	1
R194	401 012 5708	CARBON 1K JA 1/4W	1	S801	620 202 6725	Switch,Tact (TIMER PLAY)	1
R195	401 027 0309	CARBON 47K JA 1/6W	1	S802	620 202 6725	Switch,Tact (DIMMER)	1
R196	401 027 1603	CARBON 5.1K JA 1/6W	1	S803	620 202 6725	Switch,Tact (TIMER REC)	1
R197	401 026 4308	CARBON 3.3K JA 1/6W	1	S804	620 202 6725	Switch,Tact (DOWN)	1
ASSY,PCB,CD CONT.,M95				S805	620 202 6725	Switch,Tact (SLEEP)	1
62	620 207 8786	Assy,PCB,CD Cont.,M95	1	S806	620 202 6725	Switch,Tact (UP)	1
	620 206 5960	Spacer,FL	1	S807	620 202 6725	Switch,Tact (DISPLAY)	1
	620 201 4135	Fluorescent Tube	1	S808	620 202 6725	Switch,Tact (AUTO/MANUAL)	1
CN56	620 196 2536	Connector-S,TYC-B15X-A1	1	S809	620 202 6725	Switch,Tact (STATION NAME)	1
CN57	620 196 2536	Connector-S,TYC-B15X-A1	1	S810	620 202 6725	Switch,Tact (ST/MONO)	1
RA51	620 190 4062	Resistor 10X10K	1	S811	620 202 6725	Switch,Tact (CLOCK)	1
RA52	620 190 4062	Resistor 10X10K	1	S812	620 202 6725	Switch,Tact (AM)	1
S51	620 202 6725	Switch,Tact (OPEN/CLOSE)	1	S813	620 202 6725	Switch,Tact (MEMORY)	1
S52	620 202 6725	Switch,Tact (STOP)	1	S814	620 202 6725	Switch,Tact (FM 1/2)	1
S53	620 202 6725	Switch,Tact (PLAY)	1	S815	620 202 6725	Switch,Tact (1)	1
S54	620 202 6725	Switch,Tact (PAUSE)	1	S816	620 202 6725	Switch,Tact (2)	1
S55	620 202 6725	Switch,Tact (F. BACK)	1	S817	620 202 6725	Switch,Tact (3)	1
S56	620 202 6725	Switch,Tact (F. FWD)	1	S818	620 202 6725	Switch,Tact (4)	1
S57	620 202 6725	Switch,Tact (IND/FB)	1	S819	620 202 6725	Switch,Tact (5)	1
S58	620 202 6725	Switch,Tact (IND/FF)	1	S820	620 202 6725	Switch,Tact (6)	1
S59	620 202 6725	Switch,Tact (MEMORY)	1	S821	620 202 6725	Switch,Tact (7)	1
S60	620 202 6725	Switch,Tact (CHECK)	1	S822	620 202 6725	Switch,Tact (8)	1
S61	620 202 6725	Switch,Tact (CLEAR)	1	S823	620 202 6725	Switch,Tact (9)	1
S62	620 202 6725	Switch,Tact (REPEAT)	1	S824	620 202 6725	Switch,Tact (10)	1
S63	620 202 6725	Switch,Tact (TIME SEL)	1	S825	620 202 6725	Switch,Tact (11)	1
S64	620 202 6725	Switch,Tact (EDIT)	1	S826	620 202 6725	Switch,Tact (12)	1
S65	620 202 6725	Switch,Tact (SLIDE A/B)	1	S827	620 202 6725	Switch,Tact (POWER)	1
S66	620 202 6725	Switch,Tact (RANDOM PLAY)	1	S828	620 202 6725	Switch,Tact (TAPE)	1
S67	620 202 6725	Switch,Tact (INTRO SCAN)	1	S829	620 202 6725	Switch,Tact (TUNER)	1
S68	620 202 6725	Switch,Tact (AUTO SPACE)	1	S830	620 202 6725	Switch,Tact (CD)	1
X52	620 189 5117	Ceramic OSC 6MHz	1	S831	620 202 6725	Switch,Tact (AUX)	1
IC60	409 204 7509	IC M50957-213SP	1	S832	620 202 6725	Switch,Tact (PHONO)	1
Q68	405 018 2600	TR 2SC3400-AC	1	TC801	620 201 5903	Trimmer,20P,Bottom	1
Q69	405 019 3804	TR 2SC536-G-NP-AA	1	VR801	620 208 4572	VR,Rotary,2X100KB	1
or	405 019 2708	TR 2SC536-F-NP-AA	1	VR802	620 208 4589	VR,Rotary,2X50KB	1
or	405 019 2807	TR 2SC536-F-SPA-AC	1	VR803	620 208 4596	VR,Rotary,2X20KMN	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	VR804	620 206 3751	VR,Rotary,2X50KA, Motor	1
Q70	405 019 3804	TR 2SC536-G-NP-AA	1	X801	620 201 5002	Resonator,Xtal,4.194304M	1
or	405 019 2708	TR 2SC536-F-NP-AA	1	X802	620 026 9193	Ceramic Resonator	1
or	405 019 2807	TR 2SC536-F-SPA-AC	1	IC801	410 065 1605	IC TMP47C870N-4634Z	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	IC802	409 018 4305	IC LA6458D	1
Q71	405 018 2600	TR 2SC3400-AC	1	IC803	409 227 7906	IC LC6520H-4474	1
Q72	405 018 2600	TR 2SC3400-AC	1	IC804	409 114 4803	IC LB1641	1
Q73	405 018 2600	TR 2SC3400-AC	1	Q801	405 004 4601	TR 2SA608-F-SPA-AC	1
D82	407 005 3805	DIODE DS442-BT	1	or	405 004 5103	TR 2SA608-G-SPA-AC	1
D83	407 005 3805	DIODE DS442-BT	1	Q802	405 019 2807	TR 2SC536-F-SPA-AC	1
D84	407 005 3805	DIODE DS442-BT	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
D85	407 005 3805	DIODE DS442-BT	1	Q803	405 017 9501	TR 2SC3330-S-AC	1
D86	407 005 3805	DIODE DS442-BT	1	or	405 017 9600	TR 2SC3330-T-AC	1
D87	407 005 3805	DIODE DS442-BT	1	Q804	405 017 9501	TR 2SC3330-S-AC	1
C142	403 042 0807	ELECT 10U M 16V	1	or	405 017 9600	TR 2SC3330-T-AC	1
C143	403 069 1207	CERAMIC 1000P K 50V	1	Q805	405 019 2807	TR 2SC536-F-SPA-AC	1
C144	403 121 9509	CERAMIC 0.1U Z 50V	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
C145	403 121 9509	CERAMIC 0.1U Z 50V	1	Q806	405 019 2807	TR 2SC536-F-SPA-AC	1
C146	403 121 9509	CERAMIC 0.1U Z 50V	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
C147	403 121 9509	CERAMIC 0.1U Z 50V	1	Q807	405 010 9201	TR 2SC1570-G-NP-AA	1
R176	401 012 8105	CARBON 100K JA 1/4W	1	or	405 010 9300	TR 2SC1570-H-NP	1
R177	401 012 8105	CARBON 100K JA 1/4W	1	Q808	405 010 9201	TR 2SC1570-G-NP-AA	1
R178	401 012 8105	CARBON 100K JA 1/4W	1	or	405 010 9300	TR 2SC1570-H-NP-AA	1
R179	401 012 8105	CARBON 100K JA 1/4W	1	Q809	405 021 0600	TR 2SD1012-G-SPA-AC	1
R180	401 024 8001	CARBON 1M JA 1/6W	1	or	405 021 0907	TR 2SD1012-H-SPA-AC	1
R181	401 027 9005	CARBON 82K JA 1/6W	1	Q810	405 021 0600	TR 2SD1012-G-SPA-AC	1
R182	401 024 7707	CARBON 100K JA 1/6W	1	or	405 021 0907	TR 2SD1012-H-SPA-AC	1
R183	401 026 9600	CARBON 470 JA 1/6W	1	Q811	405 004 4601	TR 2SA608-F-SPA-AC	1
				or	405 004 5103	TR 2SA608-G-SPA-AC	1
				Q812	405 019 2807	TR 2SC536-F-SPA-AC	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
or	405 019 3903	TR 2SC536-G-SPA-AC	1	R807	401 024 7707	CARBON 100K JA 1/6W	1
Q813	405 019 2807	TR 2SC536-F-SPA-AC	1	R808	401 024 7707	CARBON 100K JA 1/6W	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	R809	401 024 7400	CARBON 10K JA 1/6W	1
Q814	405 019 2807	TR 2SC536-F-SPA-AC	1	R810	401 024 7400	CARBON 10K JA 1/6W	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	R811	401 024 7004	CARBON 1K JA 1/6W	1
Q815	405 018 2709	TR 2SC3401	1	R812	401 024 7004	CARBON 1K JA 1/6W	1
D801	407 125 8209	DIODE HSS271	1	R813	401 024 7400	CARBON 10K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R814	401 024 7400	CARBON 10K JA 1/6W	1
D802	407 125 8209	DIODE HSS271	1	R815	401 025 8208	CARBON 22K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R816	401 026 9600	CARBON 470 JA 1/6W	1
D803	407 125 8209	DIODE HSS271	1	R817	401 024 7707	CARBON 100K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R818	401 027 9005	CARBON 82K JA 1/6W	1
D804	407 125 8209	DIODE HSS271	1	R819	401 024 7400	CARBON 10K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R820	401 024 7400	CARBON 10K JA 1/6W	1
D805	407 125 8209	DIODE HSS271	1	R821	401 025 8703	CARBON 220K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R822	401 025 8703	CARBON 220K JA 1/6W	1
D806	407 125 8209	DIODE HSS271	1	R823	401 025 8703	CARBON 220K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R824	401 025 8703	CARBON 220K JA 1/6W	1
D807	407 125 8209	DIODE HSS271	1	R825	401 025 7409	CARBON 220 JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R826	401 025 7409	CARBON 220 JA 1/6W	1
D808	407 125 8209	DIODE HSS271	1	R827	401 026 9907	CARBON 4.7K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R828	401 026 9907	CARBON 4.7K JA 1/6W	1
D809	407 012 4802	DIODE 1SS141	1	R829	401 025 4606	CARBON 18K JA 1/6W	1
D810	407 125 8209	DIODE HSS271	1	R830	401 025 4606	CARBON 18K JA 1/6W	1
or	407 008 0405	DIODE GMB01-BT	1	R831	401 025 4606	CARBON 18K JA 1/6W	1
D811	407 104 3201	LED SLP-473B-51	1	R832	401 025 4606	CARBON 18K JA 1/6W	1
D812	407 050 4802	ZENER DIODE GZA5.1Y-BT	1	R833	401 025 4903	CARBON 180K JA 1/6W	1
D813	407 137 7009	LED LN424YPH	1	R834	401 025 4903	CARBON 180K JA 1/6W	1
D814	407 137 7009	LED LN424YPH	1	R835	401 025 4903	CARBON 180K JA 1/6W	1
D815	407 137 7009	LED LN424YPH	1	R836	401 025 4903	CARBON 180K JA 1/6W	1
D816	407 137 7009	LED LN424YPH	1	R837	401 025 7805	CARBON 2.2K JA 1/6W	1
D817	407 137 7009	LED LN424YPH	1	R838	401 025 7805	CARBON 2.2K JA 1/6W	1
D818	407 004 9105	DIODE DSF10C	1	R839	401 025 7805	CARBON 2.2K JA 1/6W	1
D832	407 005 3805	DIODE DS442-BT	1	R840	401 025 7805	CARBON 2.2K JA 1/6W	1
D833	407 005 3805	DIODE DS442-BT	1	R841	401 026 9600	CARBON 470 JA 1/6W	1
C811	403 017 7404	CERAMIC 22P J 50V	1	R842	401 026 9600	CARBON 470 JA 1/6W	1
C812	403 069 1207	CERAMIC 1000P K 50V	1	R843	401 024 7004	CARBON 1K JA 1/6W	1
C813	403 005 1704	CERAMIC 4700P N 50V	1	R844	401 024 7004	CARBON 1K JA 1/6W	1
C814	403 005 1704	CERAMIC 4700P N 50V	1	R845	401 012 7009	CARBON 10K JA 1/4W	1
C815	403 069 8404	CERAMIC 0.01U Z 50V	1	R846	401 024 7400	CARBON 10K JA 1/6W	1
C817	403 038 4505	ELECT 1000U M 6.3V	1	R847	402 016 4605	FUSIBLE RES 100 J- 1/2W	1
C818	403 121 9509	CERAMIC 0.1U Z 50V	1	R848	402 016 4605	FUSIBLE RES 100 J- 1/2W	1
C819	403 121 9509	CERAMIC 0.1U Z 50V	1	R849	401 025 8208	CARBON 22K JA 1/6W	1
C821	403 121 9509	CERAMIC 0.1U Z 50V	1	R850	401 027 3003	CARBON 56K JA 1/6W	1
C822	403 039 8106	ELECT 100U M 10V	1	R852	401 024 7400	CARBON 10K JA 1/6W	1
C823	403 049 1708	ELECT 1U M 50V	1	R853	401 024 7400	CARBON 10K JA 1/6W	1
C824	403 049 1708	ELECT 1U M 50V	1	R854	401 024 7400	CARBON 10K JA 1/6W	1
C825	403 042 3600	ELECT 100U M 16V	1	R855	401 024 7400	CARBON 10K JA 1/6W	1
C826	403 042 3600	ELECT 100U M 16V	1	R856	401 024 7400	CARBON 10K JA 1/6W	1
C827	403 060 2807	POLYESTER 0.027U K 50V	1	R857	401 024 7400	CARBON 10K JA 1/6W	1
C828	403 060 2807	POLYESTER 0.027U K 50V	1	R858	401 014 2903	CARBON 150 JA 1/4W	1
C829	403 057 6306	POLYESTER 1200P K 50V	1	R859	401 016 3809	CARBON 2.2K JA 1/4W	1
C830	403 057 6306	POLYESTER 1200P K 50V	1	R860	401 021 1906	CARBON 560 JA 1/4W	1
C831	403 057 6306	POLYESTER 1200P K 50V	1	R861	401 021 1906	CARBON 560 JA 1/4W	1
C832	403 057 6306	POLYESTER 1200P K 50V	1	R862	401 021 1906	CARBON 560 JA 1/4W	1
C833	403 068 9402	CERAMIC 100P K 50V	1	R863	401 021 1906	CARBON 560 JA 1/4W	1
C834	403 068 9402	CERAMIC 100P K 50V	1	R864	401 021 1906	CARBON 560 JA 1/4W	1
C835	403 049 5508	ELECT 10U M 50V	1	R865	401 024 7400	CARBON 10K JA 1/6W	1
C836	403 049 5508	ELECT 10U M 50V	1	R866	401 026 9907	CARBON 4.7K JA 1/6W	1
C837	403 050 3708	ELECT 22U M 50V	1	R867	401 026 9907	CARBON 4.7K JA 1/6W	1
C838	403 003 3700	CERAMIC 0.022U Z 25V	1	R868	401 026 9907	CARBON 4.7K JA 1/6W	1
C839	403 039 7901	ELECT 100U M 10V	1	R869	401 024 7400	CARBON 10K JA 1/6W	1
C840	403 069 8404	CERAMIC 0.01U Z 50V	1	R871	401 024 7400	CARBON 10K JA 1/6W	1
C841	403 074 2701	CERAMIC 0.047U Z 50V	1	R872	401 025 7805	CARBON 2.2K JA 1/6W	1
C842	403 049 1708	ELECT 1U M 50V	1	R873	401 024 7400	CARBON 10K JA 1/6W	1
C843	403 069 1207	CERAMIC 1000P K 50V	1	R874	401 024 7400	CARBON 10K JA 1/6W	1
C845	403 050 3708	ELECT 22U M 50V	1	R875	401 024 7400	CARBON 10K JA 1/6W	1
C846	403 050 3708	ELECT 22U M 50V	1	R876	401 024 7400	CARBON 10K JA 1/6W	1
C847	403 068 9402	CERAMIC 100P K 50V	1	R877	401 026 9600	CARBON 470 JA 1/6W	1
C848	403 068 9402	CERAMIC 100P K 50V	1	R878	401 012 8105	CARBON 100K JA 1/4W	1
C849	403 069 8404	CERAMIC 0.01U Z 50V	1	R879	401 027 9005	CARBON 82K JA 1/6W	1
C850	403 069 8404	CERAMIC 0.01U Z 50V	1	R880	401 024 7400	CARBON 10K JA 1/6W	1
C851	403 069 1207	CERAMIC 1000P K 50V	1	R881	401 024 7400	CARBON 10K JA 1/6W	1
R801	401 012 4503	CARBON 100 JA 1/4W	1	R882	401 012 4503	CARBON 100 JA 1/4W	1
R802	401 026 9907	CARBON 4.7K JA 1/6W	1	R883	402 016 5503	FUSIBLE RES 47 J- 1/2W	1
R803	401 024 7400	CARBON 10K JA 1/6W	1	R884	401 024 7400	CARBON 10K JA 1/6W	1
R804	401 027 5502	CARBON 6.8K JA 1/6W	1	R885	401 027 0309	CARBON 47K JA 1/6W	1
R805	401 020 2003	CARBON 4.7K JA 1/4W	1	R886	401 025 1605	CARBON 1.5K JA 1/6W	1
R806	401 020 2003	CARBON 4.7K JA 1/4W	1	R888	401 027 5502	CARBON 6.8K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,VOLUME IND.				T225	620 027 7419	IFT AM 450K	1
64	620 208 3216	Assy,PCB,Volume IND.	1	T226	620 189 6008	IFT DET 10.7MHz 1st K	1
D819	407 033 9206	LED SLP-446B-50	1	T227	620 189 6015	IFT DET 10.7MHz 2nd K	1
ASSY,PCB,AMPLIFIER TUNER				T228	620 207 9653	Coil,Ferrite,Anti Birdie	1
65	620 208 3223	Assy,PCB,Amplifier Tuner	1	T231	620 026 4754	Low Pass Filter	1
	620 021 6821	Pin 1P	6	T232	620 026 4754	Low Pass Filter	1
△	423 007 2103	FUSE 250V T4A	2	T301	620 200 1494	Coil,Ferrite,Dolby	1
	411 020 8004	SCR S-TPG BRZ 3X8	3	T302	620 200 1494	Coil,Ferrite,Dolby	1
	620 208 9546	Shield,Cover,Bottom	1	T303	620 191 6058	Bias OSC Coil	1
	620 208 9553	Shield,Cover	1	X221	620 007 1338	Crystal 7.2MHz	1
	620 208 2936	Heat Sink	2	or	620 007 1321	Crystal 7.2MHz	1
	620 207 9646	Jack,Connector 1P	1	IC221	409 016 2105	IC LA1265	1
	620 207 9158	Fuse Holder,Taping	4	IC222	409 017 1008	IC LA3401	1
	620 050 2450	Metal Mount Antenna	2	IC223	409 066 7600	IC LM7001	1
	620 052 9082	Cover Shield Top	1	IC224	409 074 0808	IC LA5667	1
	620 118 2125	Plate Shield	1	IC225	409 145 8405	IC UPC1330HA	1
	620 189 1294	Plate Heat Sink	1	IC226	409 121 8702	IC LA3246	1
	620 209 9088	Assy,Inductor,Ferrite	2	IC227	409 119 9803	IC CXA1101P	1
CA201	620 208 3698	Assy,Connector-S,3P	1	IC228	409 016 5502	IC LA2000	1
CA202	620 208 3704	Assy,Connector-S,6P	1	IC229	409 018 4305	IC LA6458D	1
F223	620 207 9622	Filter,10.7MHz	1	IC230	409 109 5303	IC LC7823	1
F224	620 207 9622	Filter,10.7MHz	1	IC231	409 018 4909	IC LA6458S	1
F225	620 014 5862	Ceramic Filter 450kHz	1	IC232	409 074 6602	IC STK4182MK2	1
F226	620 014 5879	Ceramic Filter 450kHz	1	Q201	405 028 5202	TR 3SK73-GR	1
F227	620 014 6319	Ceramic OSC CSB456F11	1	Q202	405 016 5702	TR 2SC2999-D-SPA-AC	1
F300	620 017 0734	Protector ICP-5	1	or	405 016 5900	TR 2SC2999-E-SPA-AC	1
JW201	620 177 5655	TWS UL1007AWG24BR	1	Q203	405 016 5702	TR 2SC2999-D-SPA-AC	1
JW301	620 209 8951	Wire,5P	1	or	405 016 5900	TR 2SC2999-E-SPA-AC	1
JW902	620 208 3803	Wire,7P	1	Q204	405 035 8708	TR 2SK544-E-AC	1
JW952	620 208 3810	Wire,5P	1	or	405 035 8609	TR 2SK544-F-AC	1
L201	620 207 9370	Coil,AIR,0.11UH,ANT-1	1	Q205	405 035 8708	TR 2SK544-E-AC	1
L202	620 207 9387	Coil,AIR,0.06UH,ANT-2	1	or	405 035 8609	TR 2SK544-F-AC	1
L203	620 207 9394	Coil,AIR,0.16UH,ANT-3	1	Q221	405 027 0505	TR 2SK246-GR	1
L204	620 207 9400	Coil,AIR,0.1UH,RFA-1	1	Q222	405 019 2807	TR 2SC536-F-SPA-AC	1
L205	620 207 9424	Coil,AIR,0.24UH,RFA-3	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
L206	620 207 9417	Coil,AIR,0.05UH,RFA-2	1	Q223	405 016 0905	TR 2SC2839-E-SPA-AC	1
L207	620 207 9448	Coil,AIR,0.16UH,RFB-2	1	or	405 016 1100	TR 2SC2839-F-SPA-AC	1
L208	620 207 9431	Coil,AIR,0.05UH,RFB-1	1	Q224	405 003 7702	TR 2SA1346-AC	1
L209	620 202 0112	Inductor 2.2UH K	1	Q226	405 019 2807	TR 2SC536-F-SPA-AC	1
L210	620 207 9455	Coil,AIR,0.19UH,OSC	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
L301	620 207 9639	Inductor,Ferrite,6.8/3.3M	1	Q227	405 019 2807	TR 2SC536-F-SPA-AC	1
L302	620 207 9639	Inductor,Ferrite,6.8/3.3M	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
L303	620 026 4648	Bias Trap 2700 Shield	1	Q228	405 003 7702	TR 2SA1346-AC	1
or	620 201 3855	Inductor,Ferrite,105K	1	Q229	405 021 0204	TR 2SD1012-F-SPA-AC	1
L304	620 026 4648	Bias Trap 2700 Shield	1	or	405 021 0600	TR 2SD1012-G-SPA-AC	1
or	620 201 3855	Inductor,Ferrite,105K	1	Q230	405 021 0204	TR 2SD1012-F-SPA-AC	1
L305	620 026 5447	RF Filter	1	or	405 021 0600	TR 2SD1012-G-SPA-AC	1
or	620 026 5478	RF Filter	1	Q231	405 085 5900	TR 2SK246-Y1	1
L306	620 026 5447	RF Filter	1	or	405 085 5801	TR 2SK246-Y2	1
or	620 026 5478	RF Filter	1	Q232	405 016 9403	TR 2SC3068-AA	1
L307	620 209 9088	Assy,Inductor,Ferrite	1	Q301	405 007 5308	TR 2SB560-F-MP	1
L308	620 209 9088	Assy,Inductor,Ferrite	1	Q302	405 004 4601	TR 2SA608-F-SPA-AC	1
L309	620 026 4648	Bias Trap 2700 Shield	1	or	405 004 5103	TR 2SA608-G-SPA-AC	1
PL1	620 021 4025	Plug 3P	1	Q303	405 019 2807	TR 2SC536-F-SPA-AC	1
PL2	620 021 5589	Plug 5P	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
PL701	620 021 9976	Plug 9P	1	Q304	405 004 4502	TR 2SA608-F-NP-AA	1
PL702	620 021 8344	Plug 10P	1	or	405 004 5004	TR 2SA608-G-NP-AA	1
PL801	620 205 5978	Connector-P,10P,53114	1	Q305	405 019 2807	TR 2SC536-F-SPA-AC	1
PL802	620 205 5947	Connector-P,7P,53114	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
PL803	620 205 5947	Connector-P,7P,53114	1	Q306	405 019 2807	TR 2SC536-F-SPA-AC	1
PL804	620 205 5954	Connector-P,8P,53114	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
PL901	620 208 6064	Connector-P,7P,JST B7P-VH	1	Q307	405 019 2807	TR 2SC536-F-SPA-AC	1
P221	620 207 9127	Potentiometer,22KB,TP	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
P222	620 204 9120	Potentiometer,4.7KB,TP	1	Q308	405 019 2807	TR 2SC536-F-SPA-AC	1
P223	620 204 9335	Potentiometer,100KB,TP	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
P301	620 207 9127	Potentiometer,22KB,TP	1	Q309	405 019 2807	TR 2SC536-F-SPA-AC	1
P302	620 207 9127	Potentiometer,22KB,TP	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
P303	620 204 9335	Potentiometer,100KB,TP	1	Q310	405 019 2807	TR 2SC536-F-SPA-AC	1
P304	620 204 9335	Potentiometer,100KB,TP	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
S201	620 186 9170	Push Terminal 4P	1	Q311	405 010 9201	TR 2SC1570-G-NP-AA	1
S202	620 017 7160	Socket 2P	1	or	405 010 9300	TR 2SC1570-H-NP-AA	1
S203	620 182 8788	Pin Jack 4P ALL BK	1	Q312	405 010 9201	TR 2SC1570-G-NP-AA	1
TC221	620 189 9108	Trimmer 20PF	1	or	405 010 9300	TR 2SC1570-H-NP-AA	1
TM201	620 202 8033	Terminal,I-102NA,2P	1	Q313	405 004 4601	TR 2SA608-F-SPA-AC	1
T201	620 027 6665	FM IFT	1	or	405 004 5103	TR 2SA608-G-SPA-AC	1
T220	620 191 6607	FTZ Antenna Filter	1	Q314	405 019 2807	TR 2SC536-F-SPA-AC	1
T221	620 192 7467	MW Antenna Coil	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
T223	620 192 7474	OSC Coil MW	1	Q317	405 019 2807	TR 2SC536-F-SPA-AC	1
				or	405 019 3903	TR 2SC536-G-SPA-AC	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
Q318	405 019 2807	TR 2SC536-F-SPA-AC	1	C200	403 022 7703	CERAMIC 33P J 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C201	403 068 9402	CERAMIC 100P K 50V	1
Q319	405 019 2807	TR 2SC536-F-SPA-AC	1	C202	403 025 7205	CERAMIC 4.7P K 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C203	403 069 1207	CERAMIC 1000P K 50V	1
Q320	405 019 2807	TR 2SC536-F-SPA-AC	1	C204	403 069 1207	CERAMIC 1000P K 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C205	403 001 1906	CERAMIC 0.01U M 16V	1
Q321	405 019 2807	TR 2SC536-F-SPA-AC	1	C206	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C207	403 069 1207	CERAMIC 1000P K 50V	1
Q322	405 019 2807	TR 2SC536-F-SPA-AC	1	C208	403 021 7209	CERAMIC 3.3P K 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C209	403 070 4105	CERAMIC 120P K 50V	1
Q323	405 019 2807	TR 2SC536-F-SPA-AC	1	C210	403 069 1207	CERAMIC 1000P K 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C211	403 030 2004	CERAMIC 6.8P K 50V	1
Q324	405 019 2807	TR 2SC536-F-SPA-AC	1	C212	403 068 9402	CERAMIC 100P K 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C213	403 014 2501	CERAMIC 18P J 50V	1
Q325	405 019 2807	TR 2SC536-F-SPA-AC	1	C214	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C215	403 021 7209	CERAMIC 3.3P K 50V	1
Q326	405 019 2807	TR 2SC536-F-SPA-AC	1	C216	403 010 7708	CERAMIC 12P J 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C217	403 012 5900	CERAMIC 15P J 50V	1
Q327	405 019 2807	TR 2SC536-F-SPA-AC	1	C218	403 010 7708	CERAMIC 12P J 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C219	403 009 8402	CERAMIC 100P K 50V	1
Q328	405 019 2807	TR 2SC536-F-SPA-AC	1	C220	403 007 0804	CERAMIC 1P M 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C221	403 069 1207	CERAMIC 1000P K 50V	1
Q329	405 018 7308	TR 2SC3708-T	1	C222	403 010 7708	CERAMIC 12P J 50V	1
Q330	405 004 4601	TR 2SA608-F-SPA-AC	1	C223	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1	C224	403 143 2809	CERAMIC 0.047U Z 50V	1
Q331	405 004 4601	TR 2SA608-F-SPA-AC	1	C225	403 073 7004	CERAMIC 470P K 50V	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1	C226	403 026 2209	CERAMIC 47P J 50V	1
Q332	405 019 2807	TR 2SC536-F-SPA-AC	1	C227	403 143 2809	CERAMIC 0.047U Z 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C228	403 026 2209	CERAMIC 47P J 50V	1
Q333	405 019 2807	TR 2SC536-F-SPA-AC	1	C229	403 143 2809	CERAMIC 0.047U Z 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C230	403 001 1906	CERAMIC 0.01U M 16V	1
Q334	405 023 8307	TR 2SD438-E-MP	1	C231	403 143 2809	CERAMIC 0.047U Z 50V	1
or	405 023 8505	TR 2SD438-F-MP	1	C232	403 143 2809	CERAMIC 0.047U Z 50V	1
Q335	405 007 5100	TR 2SB560-E-MP	1	C233	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 007 5308	TR 2SB560-F-MP	1	C234	403 042 0401	ELECT 10U M 16V	1
Q336	405 019 2807	TR 2SC536-F-SPA-AC	1	C235	403 143 2809	CERAMIC 0.047U Z 50V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C236	403 143 2809	CERAMIC 0.047U Z 50V	1
Q337	405 035 7107	TR 2SD1913-R	1	C237	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 035 7206	TR 2SD1913-S	1	C238	403 042 0401	ELECT 10U M 16V	1
Q338	405 035 7107	TR 2SD1913-R	1	C239	403 001 1906	CERAMIC 0.01U M 16V	1
or	405 035 7206	TR 2SD1913-S	1	C240	403 050 1308	ELECT 2.2U M 50V	1
Q339	405 019 2807	TR 2SC536-F-SPA-AC	1	C241	403 039 7901	ELECT 100U M 10V	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1	C242	403 074 6303	CERAMIC 560P K 50V	1
D201	407 137 7207	DIODE 1SV110A	1	C243	403 143 2809	CERAMIC 0.047U Z 50V	1
D202	407 137 7207	DIODE 1SV110A	1	C244	403 050 1308	ELECT 2.2U M 50V	1
D203	407 137 7207	DIODE 1SV110A	1	C245	403 001 1906	CERAMIC 0.01U M 16V	1
D204	407 137 7207	DIODE 1SV110A	1	C246	403 049 1708	ELECT 1U M 50V	1
D221	407 000 4708	VARACTOR DI SVC321C-2	1	C247	403 042 0401	ELECT 10U M 16V	1
or	407 000 4807	VARACTOR DI SVC321D-2	1	C248	403 026 2209	CERAMIC 47P J 50V	1
D222	407 000 4708	VARACTOR DI SVC321C-2	1	C249	403 051 2106	ELECT 4.7U M 50V	1
or	407 000 4807	VARACTOR DI SVC321D-2	1	C250	403 001 1906	CERAMIC 0.01U M 16V	1
D224	407 125 8209	DIODE HSS271	1	C252	403 014 0200	CERAMIC 18P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C253	403 088 4104	STYRENE 430P J 50V	1
D225	407 125 8209	DIODE HSS271	1	C255	403 069 1207	CERAMIC 1000P K 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C258	403 042 0401	ELECT 10U M 16V	1
D301	407 004 9600	DIODE DSF10TC-BT	1	C259	403 057 0908	POLYESTER 0.01U K 50V	1
D302	407 004 9600	DIODE DSF10TC-BT	1	C260	403 061 4404	POLYESTER 0.039U K 50V	1
D303	407 050 0408	ZENER DIODE GZA27Y-BT	1	C261	403 044 0300	ELECT 47U M 16V	1
D304	407 050 6103	ZENER DIODE GZA6.2X-BT	1	C264	403 063 0503	POLYESTER 6800P K 50V	1
D305	407 125 8209	DIODE HSS271	1	C265	403 062 0900	POLYESTER 0.047U K 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C266	403 056 8608	POLYESTER 1000P K 50V	1
D306	407 125 8209	DIODE HSS271	1	C267	403 042 0401	ELECT 10U M 16V	1
or	407 008 0405	DIODE GMB01-BT	1	C268	403 001 1906	CERAMIC 0.01U M 16V	1
D307	407 125 8209	DIODE HSS271	1	C269	403 049 1708	ELECT 1U M 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C270	403 044 0300	ELECT 47U M 16V	1
D308	407 125 8209	DIODE HSS271	1	C271	403 071 6207	CERAMIC 220P K 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C272	403 071 6207	CERAMIC 220P K 50V	1
D309	407 125 8209	DIODE HSS271	1	C273	403 050 1308	ELECT 2.2U M 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C274	403 050 1308	ELECT 2.2U M 50V	1
D310	407 125 8209	DIODE HSS271	1	C275	403 061 2608	POLYESTER 3900P K 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C276	403 061 2608	POLYESTER 3900P K 50V	1
D311	407 092 4105	DIODE DSA20TC-KD3	1	C277	403 048 3208	ELECT 0.22U M 50V	1
D312	407 092 4105	DIODE DSA20TC-KD3	1	C278	403 049 1708	ELECT 1U M 50V	1
D313	407 092 4105	DIODE DSA20TC-KD3	1	C279	403 022 5907	CERAMIC 33P J 50V	1
D314	407 092 4105	DIODE DSA20TC-KD3	1	C280	403 022 5907	CERAMIC 33P J 50V	1
D315	407 049 6305	ZENER DIODE GZA12Y-BT	1	C281	403 001 1906	CERAMIC 0.01U M 16V	1
D316	407 050 7407	ZENER DIODE GZA8.2Z	1	C282	403 042 0401	ELECT 10U M 16V	1
D317	407 049 7005	ZENER DIODE GZA15Y-BT	1	C283	403 001 1906	CERAMIC 0.01U M 16V	1
D318	407 049 7005	ZENER DIODE GZA15Y-BT	1	C284	403 026 2209	CERAMIC 47P J 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty		
C285	403 057 0908	POLYESTER	0.01U K 50V	1	C372	403 042 9107	ELECT	22U M 16V	1
C286	403 049 1708	ELECT	1U M 50V	1	C373	403 067 5603	MT-COMPO	0.1U J 50V	1
C287	403 069 1207	CERAMIC	1000P K 50V	1	C374	403 067 5603	MT-COMPO	0.1U J 50V	1
C288	403 044 0300	ELECT	47U M 16V	1	C375	403 051 2106	ELECT	4.7U M 50V	1
C289	403 044 0300	ELECT	47U M 16V	1	C376	403 051 2106	ELECT	4.7U M 50V	1
C290	403 001 1906	CERAMIC	0.01U M 16V	1	C377	403 074 6303	CERAMIC	560P K 50V	1
C291	403 001 1906	CERAMIC	0.01U M 16V	1	C378	403 074 6303	CERAMIC	560P K 50V	1
C292	403 001 1906	CERAMIC	0.01U M 16V	1	C379	403 071 5903	CERAMIC	220P K 50V	1
C293	403 049 1708	ELECT	1U M 50V	1	C380	403 071 5903	CERAMIC	220P K 50V	1
C294	403 069 1207	CERAMIC	1000P K 50V	1	C381	403 058 2901	POLYESTER	0.015U J 50V	1
C295	403 143 2809	CERAMIC	0.047U Z 50V	1	C382	403 058 2901	POLYESTER	0.015U J 50V	1
C296	403 001 1906	CERAMIC	0.01U M 16V	1	C383	403 057 0106	POLYESTER	0.01U J 50V	1
C301	403 052 8107	ELECT	100U M 35V	1	C384	403 057 0106	POLYESTER	0.01U J 50V	1
C302	404 012 7000	CERAMIC	0.01U P 500V	1	C385	403 057 0908	POLYESTER	0.01U K 50V	1
C303	404 012 7000	CERAMIC	0.01U P 500V	1	C386	403 057 0908	POLYESTER	0.01U K 50V	1
C304	403 049 7304	ELECT	100U M 50V	1	C387	403 080 8308	POLYPRO	0.012U J 100V	1
C305	403 049 5508	ELECT	10U M 50V	1	C388	403 057 0106	POLYESTER	0.01U J 50V	1
C306	403 042 9107	ELECT	22U M 16V	1	C389	403 057 0106	POLYESTER	0.01U J 50V	1
C307	403 049 1708	ELECT	1U M 50V	1	C390	403 042 9107	ELECT	22U M 16V	1
C308	403 054 1304	ELECT	47U M 35V	1	C391	403 067 5603	MT-COMPO	0.1U J 50V	1
C309	403 049 5508	ELECT	10U M 50V	1	C392	403 067 5603	MT-COMPO	0.1U J 50V	1
C310	403 044 0300	ELECT	47U M 16V	1	C393	403 050 1308	ELECT	2.2U M 50V	1
C311	403 071 2001	CERAMIC	180P K 50V	1	C394	403 050 1308	ELECT	2.2U M 50V	1
C312	403 071 2001	CERAMIC	180P K 50V	1	C395	403 042 3600	ELECT	100U M 16V	1
C313	403 073 3204	CERAMIC	390P K 50V	1	C396	403 042 3600	ELECT	100U M 16V	1
C314	403 073 3204	CERAMIC	390P K 50V	1	C397	403 073 7004	CERAMIC	470P K 50V	1
C315	403 044 0300	ELECT	47U M 16V	1	C398	403 073 7004	CERAMIC	470P K 50V	1
C316	403 044 0300	ELECT	47U M 16V	1	C399	403 071 6207	CERAMIC	220P K 50V	1
C317	403 057 0106	POLYESTER	0.01U J 50V	1	C400	403 071 6207	CERAMIC	220P K 50V	1
C318	403 057 0106	POLYESTER	0.01U J 50V	1	C401	403 054 1304	ELECT	47U M 35V	1
C319	403 057 8003	POLYESTER	0.012U K 50V	1	C402	403 054 1304	ELECT	47U M 35V	1
C320	403 057 8003	POLYESTER	0.012U K 50V	1	C403	403 097 6700	ELECT	330U M 50V	1
C321	403 049 1708	ELECT	1U M 50V	1	C404	403 121 0704	ELECT	100U M 63V	1
C322	403 049 1708	ELECT	1U M 50V	1	C405	403 051 8603	ELECT	10U M 63V	1
C323	403 048 7701	ELECT	0.47U M 50V	1	C406	403 051 8603	ELECT	10U M 63V	1
C324	403 051 2106	ELECT	4.7U M 50V	1	C407	403 050 3708	ELECT	22U M 50V	1
C325	403 042 3600	ELECT	100U M 16V	1	C408	403 050 3708	ELECT	22U M 50V	1
C326	403 042 0401	ELECT	10U M 16V	1	C409	403 045 0606	ELECT	100U M 25V	1
C328	403 043 1100	ELECT	220U M 16V	1	C410	403 045 0606	ELECT	100U M 25V	1
C329	403 049 1708	ELECT	1U M 50V	1	C411	620 209 4236	Capacitor,4700MF/55V		1
C330	403 049 1708	ELECT	1U M 50V	1	C412	620 209 4236	Capacitor,4700MF/55V		1
C331	403 050 1308	ELECT	2.2U M 50V	1	C413	403 042 0401	ELECT	10U M 16V	1
C332	403 050 1308	ELECT	2.2U M 50V	1	C414	403 042 0401	ELECT	10U M 16V	1
C333	403 042 0401	ELECT	10U M 16V	1	C415	403 043 1100	ELECT	220U M 16V	1
C334	403 042 0401	ELECT	10U M 16V	1	C416	403 040 4807	ELECT	220U M 10V	1
C335	403 039 7901	ELECT	100U M 10V	1	C417	403 069 0705	CERAMIC	1000P K 50V	1
C336	403 042 0401	ELECT	10U M 16V	1	C418	403 069 0705	CERAMIC	1000P K 50V	1
C337	403 048 9101	ELECT	0.68U M 50V	1	C419	403 069 8404	CERAMIC	0.01U Z 50V	1
C338	403 048 9101	ELECT	0.68U M 50V	1	C420	403 069 8404	CERAMIC	0.01U Z 50V	1
C339	403 051 2106	ELECT	4.7U M 50V	1	C421	404 012 7000	CERAMIC	0.01U P 500V	1
C340	403 051 2106	ELECT	4.7U M 50V	1	C422	404 012 7000	CERAMIC	0.01U P 500V	1
C341	403 049 1708	ELECT	1U M 50V	1	C423	404 012 7000	CERAMIC	0.01U P 500V	1
C343	403 042 0401	ELECT	10U M 16V	1	C424	404 012 7000	CERAMIC	0.01U P 500V	1
C344	403 042 0401	ELECT	10U M 16V	1	C425	403 001 1906	CERAMIC	0.01U M 16V	1
C345	403 042 0401	ELECT	10U M 16V	1	C426	403 001 1906	CERAMIC	0.01U M 16V	1
C346	403 042 0401	ELECT	10U M 16V	1	C427	403 073 7004	CERAMIC	470P K 50V	1
C347	403 050 7805	ELECT	3.3U M 50V	1	C428	403 073 7004	CERAMIC	470P K 50V	1
C348	403 050 7805	ELECT	3.3U M 50V	1	C429	403 051 2106	ELECT	4.7U M 50V	1
C349	403 042 0401	ELECT	10U M 16V	1	C430	403 051 2106	ELECT	4.7U M 50V	1
C350	403 042 0401	ELECT	10U M 16V	1	C431	403 073 7004	CERAMIC	470P K 50V	1
C351	403 042 0401	ELECT	10U M 16V	1	C432	403 073 7004	CERAMIC	470P K 50V	1
C352	403 042 0401	ELECT	10U M 16V	1	C433	403 047 4305	ELECT	47U M 25V	1
C353	403 137 8206	POLYESTER	2700P J 50V	1	C434	403 047 4305	ELECT	47U M 25V	1
C354	403 137 8206	POLYESTER	2700P J 50V	1	C435	403 058 9603	POLYESTER	0.018U J 50V	1
C355	403 049 1708	ELECT	1U M 50V	1	C436	403 058 9603	POLYESTER	0.018U J 50V	1
C356	403 049 1708	ELECT	1U M 50V	1	C437	403 061 7801	POLYESTER	4700P J 50V	1
C357	403 047 4305	ELECT	47U M 25V	1	C438	403 061 7801	POLYESTER	4700P J 50V	1
C359	403 074 9205	CERAMIC	680P K 50V	1	C439	403 050 1308	ELECT	2.2U M 50V	1
C360	403 074 9205	CERAMIC	680P K 50V	1	C440	403 050 1308	ELECT	2.2U M 50V	1
C361	403 074 9205	CERAMIC	680P K 50V	1	C441	403 045 9104	ELECT	220U M 25V	1
C362	403 048 5509	ELECT	0.33U M 50V	1	C442	403 045 9104	ELECT	220U M 25V	1
C363	403 048 7701	ELECT	0.47U M 50V	1	C443	403 071 6207	CERAMIC	220P K 50V	1
C364	403 044 0300	ELECT	47U M 16V	1	C444	403 071 6207	CERAMIC	220P K 50V	1
C365	403 040 4807	ELECT	220U M 10V	1	C445	403 073 7004	CERAMIC	470P K 50V	1
C366	403 042 3600	ELECT	100U M 16V	1	C446	403 073 7004	CERAMIC	470P K 50V	1
C367	403 044 0300	ELECT	47U M 16V	1	C447	403 001 1906	CERAMIC	0.01U M 16V	1
C369	403 049 1708	ELECT	1U M 50V	1	C448	403 001 1906	CERAMIC	0.01U M 16V	1
C370	403 049 1708	ELECT	1U M 50V	1	C449	403 049 5508	ELECT	10U M 50V	1
C371	403 042 9107	ELECT	22U M 16V	1	C450	403 049 5508	ELECT	10U M 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
C451	403 049 1708	ELECT 1U M 50V	1	R279	401 027 2600	CARBON 5.6K JA 1/6W	1
C453	403 071 6207	CERAMIC 220P K 50V	1	R280	401 027 2600	CARBON 5.6K JA 1/6W	1
C454	403 071 6207	CERAMIC 220P K 50V	1	R281	401 025 4903	CARBON 180K JA 1/6W	1
C455	403 069 8404	CERAMIC 0.01U Z 50V	1	R282	401 025 4903	CARBON 180K JA 1/6W	1
C456	403 069 8404	CERAMIC 0.01U Z 50V	1	R283	401 026 1000	CARBON 2.7K JA 1/6W	1
C457	403 069 8404	CERAMIC 0.01U Z 50V	1	R284	401 026 7002	CARBON 3.9K JA 1/6W	1
C458	403 071 6207	CERAMIC 220P K 50V	1	R286	401 026 4605	CARBON 33K JA 1/6W	1
C459	403 071 6207	CERAMIC 220P K 50V	1	R287	401 024 7004	CARBON 1K JA 1/6W	1
C460	403 074 6303	CERAMIC 560P K 50V	1	R288	401 024 7707	CARBON 100K JA 1/6W	1
C461	403 074 6303	CERAMIC 560P K 50V	1	R289	401 027 0309	CARBON 47K JA 1/6W	1
C462	403 071 6207	CERAMIC 220P K 50V	1	R290	401 027 0309	CARBON 47K JA 1/6W	1
C463	403 071 6207	CERAMIC 220P K 50V	1	R292	401 027 2600	CARBON 5.6K JA 1/6W	1
R201	401 024 7707	CARBON 100K JA 1/6W	1	R294	401 018 3807	CARBON 3.3K JA 1/4W	1
R202	401 024 7707	CARBON 100K JA 1/6W	1	R295	401 024 7400	CARBON 10K JA 1/6W	1
R203	401 024 8001	CARBON 1M JA 1/6W	1	R296	401 024 7400	CARBON 10K JA 1/6W	1
R204	401 026 9303	CARBON 47 JA 1/6W	1	R297	401 024 7400	CARBON 10K JA 1/6W	1
R205	401 024 6403	CARBON 10 JA 1/6W	1	R298	401 024 7400	CARBON 10K JA 1/6W	1
R206	401 024 7400	CARBON 10K JA 1/6W	1	R299	401 025 8208	CARBON 22K JA 1/6W	1
R207	401 024 7400	CARBON 10K JA 1/6W	1	R301	402 015 8505	FUSIBLE RES 22 J- 1/4W	1
R208	401 024 7400	CARBON 10K JA 1/6W	1	R302	401 085 6008	OXIDE-MT 3.3K JB 1/2W	1
R209	401 024 8001	CARBON 1M JA 1/6W	1	R303	401 024 7707	CARBON 100K JA 1/6W	1
R210	401 024 6403	CARBON 10 JA 1/6W	1	R304	401 024 8001	CARBON 1M JA 1/6W	1
R211	401 019 9600	CARBON 47 JA 1/4W	1	R305	401 027 0309	CARBON 47K JA 1/6W	1
R212	401 024 7400	CARBON 10K JA 1/6W	1	R306	401 018 3807	CARBON 3.3K JA 1/4W	1
R213	401 026 4308	CARBON 3.3K JA 1/6W	1	R307	401 024 7707	CARBON 100K JA 1/6W	1
R214	401 024 7400	CARBON 10K JA 1/6W	1	R308	401 025 8208	CARBON 22K JA 1/6W	1
R215	401 012 7009	CARBON 10K JA 1/4W	1	R309	401 027 0309	CARBON 47K JA 1/6W	1
R216	401 024 7707	CARBON 100K JA 1/6W	1	R310	401 024 7400	CARBON 10K JA 1/6W	1
R217	401 024 6700	CARBON 100 JA 1/6W	1	R313	401 025 8208	CARBON 22K JA 1/6W	1
R218	401 024 7707	CARBON 100K JA 1/6W	1	R314	401 025 8208	CARBON 22K JA 1/6W	1
R219	401 026 9303	CARBON 47 JA 1/6W	1	R315	401 024 6403	CARBON 10 JA 1/6W	1
R222	401 024 7707	CARBON 100K JA 1/6W	1	R316	401 024 6403	CARBON 10 JA 1/6W	1
R223	401 027 0309	CARBON 47K JA 1/6W	1	R317	401 025 4903	CARBON 180K JA 1/6W	1
R224	401 024 7707	CARBON 100K JA 1/6W	1	R318	401 025 4903	CARBON 180K JA 1/6W	1
R225	401 024 7004	CARBON 1K JA 1/6W	1	R319	401 024 6700	CARBON 100 JA 1/6W	1
R226	401 024 8001	CARBON 1M JA 1/6W	1	R320	401 024 6700	CARBON 100 JA 1/6W	1
R227	401 026 6609	CARBON 390 JA 1/6W	1	R321	401 024 9701	CARBON 12K JA 1/6W	1
R228	401 026 1000	CARBON 2.7K JA 1/6W	1	R322	401 024 9701	CARBON 12K JA 1/6W	1
R229	401 012 5708	CARBON 1K JA 1/4W	1	R323	401 025 4606	CARBON 18K JA 1/6W	1
R230	401 024 7004	CARBON 1K JA 1/6W	1	R324	401 025 4606	CARBON 18K JA 1/6W	1
R231	401 025 7805	CARBON 2.2K JA 1/6W	1	R325	401 025 7805	CARBON 2.2K JA 1/6W	1
R232	401 026 6609	CARBON 390 JA 1/6W	1	R326	401 025 7805	CARBON 2.2K JA 1/6W	1
R233	401 026 6609	CARBON 390 JA 1/6W	1	R327	401 026 1000	CARBON 2.7K JA 1/6W	1
R234	401 025 7805	CARBON 2.2K JA 1/6W	1	R328	401 026 1000	CARBON 2.7K JA 1/6W	1
R235	401 026 1000	CARBON 2.7K JA 1/6W	1	R329	401 025 8208	CARBON 22K JA 1/6W	1
R236	401 027 5502	CARBON 6.8K JA 1/6W	1	R330	401 025 8208	CARBON 22K JA 1/6W	1
R237	401 017 2801	CARBON 27K JA 1/4W	1	R331	401 026 9907	CARBON 4.7K JA 1/6W	1
R241	401 026 1000	CARBON 2.7K JA 1/6W	1	R332	401 012 7009	CARBON 10K JA 1/4W	1
R242	401 026 1000	CARBON 2.7K JA 1/6W	1	R333	401 026 9303	CARBON 47 JA 1/6W	1
R243	401 026 4308	CARBON 3.3K JA 1/6W	1	R334	401 021 1906	CARBON 560 JA 1/4W	1
R244	401 027 5205	CARBON 680 JA 1/6W	1	R335	401 024 7707	CARBON 100K JA 1/6W	1
R245	401 012 5708	CARBON 1K JA 1/4W	1	R336	401 025 8208	CARBON 22K JA 1/6W	1
R247	401 024 7400	CARBON 10K JA 1/6W	1	R337	401 024 7400	CARBON 10K JA 1/6W	1
R248	401 012 7009	CARBON 10K JA 1/4W	1	R338	401 016 2604	CARBON 220 JA 1/4W	1
R249	401 018 3807	CARBON 3.3K JA 1/4W	1	R339	401 028 0209	CARBON 9.1K JA 1/6W	1
R250	401 027 0309	CARBON 47K JA 1/6W	1	R340	401 028 0209	CARBON 9.1K JA 1/6W	1
R251	401 026 1307	CARBON 27K JA 1/6W	1	R341	401 017 2801	CARBON 27K JA 1/4W	1
R252	401 024 6700	CARBON 100 JA 1/6W	1	R342	401 026 1307	CARBON 27K JA 1/6W	1
R255	401 024 7004	CARBON 1K JA 1/6W	1	R344	401 024 7707	CARBON 100K JA 1/6W	1
R256	401 012 4107	CARBON 100 JA 1/4W	1	R345	401 026 9006	CARBON 43K JA 1/6W	1
R257	401 024 7004	CARBON 1K JA 1/6W	1	R346	401 013 6407	CARBON 12K JA 1/4W	1
R258	401 024 7004	CARBON 1K JA 1/6W	1	R347	401 025 2305	CARBON 150K JA 1/6W	1
R259	401 012 4503	CARBON 100 JA 1/4W	1	R348	401 024 7400	CARBON 10K JA 1/6W	1
R260	401 024 7400	CARBON 10K JA 1/6W	1	R349	401 027 8602	CARBON 8.2K JA 1/6W	1
R262	401 026 4308	CARBON 3.3K JA 1/6W	1	R350	401 016 4806	CARBON 22K JA 1/4W	1
R263	401 024 7400	CARBON 10K JA 1/6W	1	R351	401 016 2604	CARBON 220 JA 1/4W	1
R264	401 012 7009	CARBON 10K JA 1/4W	1	R352	401 020 0801	CARBON 470 JA 1/4W	1
R265	401 012 7009	CARBON 10K JA 1/4W	1	R353	401 024 7400	CARBON 10K JA 1/6W	1
R266	401 024 7400	CARBON 10K JA 1/6W	1	R354	401 024 7707	CARBON 100K JA 1/6W	1
R267	401 024 7400	CARBON 10K JA 1/6W	1	R355	401 012 7009	CARBON 10K JA 1/4W	1
R268	401 024 7400	CARBON 10K JA 1/6W	1	R357	401 026 1000	CARBON 2.7K JA 1/6W	1
R269	401 012 8105	CARBON 100K JA 1/4W	1	R358	401 026 1000	CARBON 2.7K JA 1/6W	1
R270	401 016 1102	CARBON 22 JA 1/4W	1	R359	401 025 4606	CARBON 18K JA 1/6W	1
R271	401 025 8703	CARBON 220K JA 1/6W	1	R360	401 025 4606	CARBON 18K JA 1/6W	1
R272	401 025 8703	CARBON 220K JA 1/6W	1	R367	401 024 7707	CARBON 100K JA 1/6W	1
R273	401 026 4308	CARBON 3.3K JA 1/6W	1	R368	401 024 7707	CARBON 100K JA 1/6W	1
R274	401 026 4308	CARBON 3.3K JA 1/6W	1	R369	401 024 6700	CARBON 100 JA 1/6W	1
R275	401 018 3807	CARBON 3.3K JA 1/4W	1	R370	401 024 6700	CARBON 100 JA 1/6W	1
R276	401 018 3807	CARBON 3.3K JA 1/4W	1	R371	401 012 5708	CARBON 1K JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty		
R372	401 012 5708	CARBON	1K JA 1/4W	1	R456	401 025 8703	CARBON	220K JA 1/6W	1
R373	401 025 8208	CARBON	22K JA 1/6W	1	R457	401 025 1902	CARBON	15K JA 1/6W	1
R374	401 014 4105	CARBON	1.5K JA 1/4W	1	R458	401 025 1902	CARBON	15K JA 1/6W	1
R375	401 012 8105	CARBON	100K JA 1/4W	1	R459	401 016 3809	CARBON	2.2K JA 1/4W	1
R376	401 012 8105	CARBON	100K JA 1/4W	1	R460	401 025 7805	CARBON	2.2K JA 1/6W	1
R377	401 026 7002	CARBON	3.9K JA 1/6W	1	R461	401 024 7707	CARBON	100K JA 1/6W	1
R378	401 026 7002	CARBON	3.9K JA 1/6W	1	R462	401 024 7707	CARBON	100K JA 1/6W	1
R379	401 024 7707	CARBON	100K JA 1/6W	1	R463	402 035 7809	FUSIBLE RES	220 J- 1/4W	1
R380	401 025 8208	CARBON	22K JA 1/6W	1	R464	402 035 7809	FUSIBLE RES	220 J- 1/4W	1
R381	401 025 8208	CARBON	22K JA 1/6W	1	R465	401 016 3809	CARBON	2.2K JA 1/4W	1
R382	401 024 7707	CARBON	100K JA 1/6W	1	R466	401 025 7805	CARBON	2.2K JA 1/6W	1
R383	401 026 4308	CARBON	3.3K JA 1/6W	1	R467	401 025 8703	CARBON	220K JA 1/6W	1
R384	401 026 4308	CARBON	3.3K JA 1/6W	1	R468	401 025 8703	CARBON	220K JA 1/6W	1
R385	401 024 7004	CARBON	1K JA 1/6W	1	R469	401 024 7004	CARBON	1K JA 1/6W	1
R386	401 024 7004	CARBON	1K JA 1/6W	1	R470	401 024 7004	CARBON	1K JA 1/6W	1
R387	401 024 7707	CARBON	100K JA 1/6W	1	R471	401 025 8703	CARBON	220K JA 1/6W	1
R388	401 024 7707	CARBON	100K JA 1/6W	1	R472	401 016 5803	CARBON	220K JA 1/4W	1
R391	401 027 5502	CARBON	6.8K JA 1/6W	1	R473	402 035 7809	FUSIBLE RES	220 J- 1/4W	1
R392	401 027 5502	CARBON	6.8K JA 1/6W	1	R474	402 035 7809	FUSIBLE RES	220 J- 1/4W	1
R393	401 026 4308	CARBON	3.3K JA 1/6W	1	R475	401 027 0309	CARBON	47K JA 1/6W	1
R394	401 026 4308	CARBON	3.3K JA 1/6W	1	R476	401 012 5708	CARBON	1K JA 1/4W	1
R395	401 027 0309	CARBON	47K JA 1/6W	1	R477	401 024 7004	CARBON	1K JA 1/6W	1
R396	401 027 0309	CARBON	47K JA 1/6W	1	R478	401 024 7004	CARBON	1K JA 1/6W	1
R397	401 027 2600	CARBON	5.6K JA 1/6W	1	R479	401 027 3003	CARBON	56K JA 1/6W	1
R398	401 027 2600	CARBON	5.6K JA 1/6W	1	R480	401 027 3003	CARBON	56K JA 1/6W	1
R399	401 024 7707	CARBON	100K JA 1/6W	1	R481	401 027 2303	CARBON	560 JA 1/6W	1
R400	401 020 0801	CARBON	470 JA 1/4W	1	R482	401 027 2303	CARBON	560 JA 1/6W	1
R401	401 024 7400	CARBON	10K JA 1/6W	1	R483	401 021 4105	CARBON	56K JA 1/4W	1
R402	401 024 9701	CARBON	12K JA 1/6W	1	R484	401 021 4105	CARBON	56K JA 1/4W	1
R403	401 027 9005	CARBON	82K JA 1/6W	1	R485	401 056 0202	OXIDE-MT	3.3K JA 1/2W	1
R404	401 027 9005	CARBON	82K JA 1/6W	1	R486	401 056 0202	OXIDE-MT	3.3K JA 1/2W	1
R405	401 024 7707	CARBON	100K JA 1/6W	1	R487	401 056 0202	OXIDE-MT	3.3K JA 1/2W	1
R406	401 024 7707	CARBON	100K JA 1/6W	1	R488	401 056 0202	OXIDE-MT	3.3K JA 1/2W	1
R409	401 025 8208	CARBON	22K JA 1/6W	1	R489	402 016 4605	FUSIBLE RES	100 J- 1/2W	1
R410	401 025 8208	CARBON	22K JA 1/6W	1	R490	401 056 4002	OXIDE-MT	4.7K JA 1/2W	1
R411	401 025 4200	CARBON	1.8K JA 1/6W	1	R491	402 016 4605	FUSIBLE RES	100 J- 1/2W	1
R412	401 025 4200	CARBON	1.8K JA 1/6W	1	R492	402 034 4700	FUSIBLE RES	0.47 J- 1/2W	1
R413	401 025 8208	CARBON	22K JA 1/6W	1	R493	402 016 4506	FUSIBLE RES	10 J- 1/2W	1
R414	401 025 8208	CARBON	22K JA 1/6W	1	R494	402 016 4506	FUSIBLE RES	10 J- 1/2W	1
R415	401 027 3003	CARBON	56K JA 1/6W	1	R495	401 054 8200	OXIDE-MT	100 JA 1/2W	1
R416	401 027 3003	CARBON	56K JA 1/6W	1	R496	401 054 8200	OXIDE-MT	100 JA 1/2W	1
R417	401 024 7707	CARBON	100K JA 1/6W	1	R497	401 020 2003	CARBON	4.7K JA 1/4W	1
R418	401 024 7707	CARBON	100K JA 1/6W	1	R498	401 020 2003	CARBON	4.7K JA 1/4W	1
R419	401 024 7400	CARBON	10K JA 1/6W	1	R499	402 016 3905	FUSIBLE RES	820 J- 1/2W	1
R420	401 024 7400	CARBON	10K JA 1/6W	1	R500	402 016 3905	FUSIBLE RES	820 J- 1/2W	1
R421	401 025 4903	CARBON	180K JA 1/6W	1	R501	401 056 1209	OXIDE-MT	390 JB 1/2W	1
R422	401 025 4903	CARBON	180K JA 1/6W	1	R502	401 056 5504	OXIDE-MT	560 JB 1/2W	1
R423	401 020 2003	CARBON	4.7K JA 1/4W	1	R503	402 034 4700	FUSIBLE RES	0.47 J- 1/2W	1
R424	401 020 2003	CARBON	4.7K JA 1/4W	1	R504	402 016 5404	FUSIBLE RES	4.7 J- 1/2W	1
R425	401 025 7409	CARBON	220 JA 1/6W	1	R505	401 024 7400	CARBON	10K JA 1/6W	1
R426	401 025 7409	CARBON	220 JA 1/6W	1	R507	401 024 7707	CARBON	100K JA 1/6W	1
R427	401 025 8208	CARBON	22K JA 1/6W	1	R508	401 024 7707	CARBON	100K JA 1/6W	1
R428	401 016 4806	CARBON	22K JA 1/4W	1	R509	401 017 1804	CARBON	2.7K JA 1/4W	1
R429	401 026 9907	CARBON	4.7K JA 1/6W	1	R510	401 025 8208	CARBON	22K JA 1/6W	1
R430	401 026 9907	CARBON	4.7K JA 1/6W	1					
R431	401 027 5502	CARBON	6.8K JA 1/6W	1					
R432	401 027 5502	CARBON	6.8K JA 1/6W	1					
R433	401 025 8208	CARBON	22K JA 1/6W	1					
R434	401 025 8208	CARBON	22K JA 1/6W	1					
R435	401 025 1308	CARBON	150 JA 1/6W	1					
R436	401 025 1308	CARBON	150 JA 1/6W	1					
R437	401 024 5604	CARBON	1 JA 1/6W	1					
R438	401 024 7400	CARBON	10K JA 1/6W	1					
R439	401 026 8108	CARBON	4.7 JA 1/6W	1					
R440	401 027 0309	CARBON	47K JA 1/6W	1					
R441	401 027 0309	CARBON	47K JA 1/6W	1					
R442	401 026 9907	CARBON	4.7K JA 1/6W	1					
R443	401 026 9907	CARBON	4.7K JA 1/6W	1					
R444	401 055 5208	OXIDE-MT	220 JB 1/2W	1					
R445	401 055 7004	OXIDE-MT	270 JB 1/2W	1					
R446	401 025 8208	CARBON	22K JA 1/6W	1					
R447	401 016 4806	CARBON	22K JA 1/4W	1					
R449	401 025 7805	CARBON	2.2K JA 1/6W	1					
R450	401 025 7805	CARBON	2.2K JA 1/6W	1					
R451	401 024 7707	CARBON	100K JA 1/6W	1					
R452	401 024 7707	CARBON	100K JA 1/6W	1					
R453	401 025 7409	CARBON	220 JA 1/6W	1					
R454	401 025 7409	CARBON	220 JA 1/6W	1					
R455	401 025 8703	CARBON	220K JA 1/6W	1					

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
SW710	620 208 3681	Switch,Tact (T1 REW)	1	X701	620 189 5117	Ceramic OSC 6MHz	1
SW711	620 208 3681	Switch,Tact (T1 FF)	1	IC701	409 115 8800	IC TA8121AN	1
SW712	620 208 3681	Switch,Tact (T2 REC)	1	IC702	409 115 8800	IC TA8121AN	1
SW713	620 208 3681	Switch,Tact (T2 PAUSE)	1	IC703	409 214 0002	IC M50954-131SP	1
SW714	620 208 3681	Switch,Tact (T2 REW)	1	Q701	405 008 6809	TR 2SB808-F-SPA-AC	1
SW715	620 208 3681	Switch,Tact (T2 FF)	1	or	405 008 7103	TR 2SB808-G-SPA-AC	1
SW716	620 015 3898	Slide Switch 2P2T (DOLBY NR)	1	Q702	405 008 6809	TR 2SB808-F-SPA-AC	1
SW717	620 016 6423	Slide Switch 2P3T (DIRECTION MODE)	1	or	405 008 7103	TR 2SB808-G-SPA-AC	1
S701	620 200 1531	Connector-S,7P	1	Q703	405 019 2807	TR 2SC536-F-SPA-AC	1
S702	620 200 1548	Connector-S,9P	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
S703	620 200 1531	Connector-S,7P	1	Q704	405 019 2807	TR 2SC536-F-SPA-AC	1
D701	407 110 6302	LED SLP-146B-51	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
D702	407 110 6302	LED SLP-146B-51	1	Q705	405 019 2807	TR 2SC536-F-SPA-AC	1
D703	407 110 6302	LED SLP-146B-51	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
D704	407 112 7208	LED SLB-55MG3F	1	Q706	405 004 4601	TR 2SA608-F-SPA-AC	1
D705	407 112 7208	LED SLB-55MG3F	1	or	405 004 5103	TR 2SA608-G-SPA-AC	1
D706	407 112 7208	LED SLB-55MG3F	1	Q707	405 024 9907	TR 2SD734-F-AA	1
D707	407 112 7109	LED SLB-55VR3F	1	or	405 024 9709	TR 2SD734-E-AA	1
D708	407 112 7208	LED SLB-55MG3F	1	Q708	405 019 2807	TR 2SC536-F-SPA-AC	1
D709	407 005 3805	DIODE DS442-BT	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
D710	407 125 8209	DIODE HSS271	1	Q709	405 019 2807	TR 2SC536-F-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
D711	407 125 8209	DIODE HSS271	1	Q710	405 019 2807	TR 2SC536-F-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
D712	407 005 3805	DIODE DS442-BT	1	Q711	405 019 2807	TR 2SC536-F-SPA-AC	1
D713	407 125 8209	DIODE HSS271	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	Q712	405 019 2807	TR 2SC536-F-SPA-AC	1
D714	407 125 8209	DIODE HSS271	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	Q713	405 019 2807	TR 2SC536-F-SPA-AC	1
D715	407 125 8209	DIODE HSS271	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	Q714	405 019 2807	TR 2SC536-F-SPA-AC	1
D716	407 125 8209	DIODE HSS271	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	Q715	405 019 2807	TR 2SC536-F-SPA-AC	1
D717	407 125 8209	DIODE HSS271	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
or	407 008 0405	DIODE GMB01-BT	1	D731	407 004 9105	DIODE DSF10C-BT	1
D718	407 125 8209	DIODE HSS271	1	D732	407 004 9105	DIODE DSF10C-BT	1
or	407 008 0405	DIODE GMB01-BT	1	D733	407 136 3507	ZENER DIODE GZE5.1B-BT	1
D719	407 125 8209	DIODE HSS271	1	D734	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1	or	407 008 0405	DIODE GMB01-BT	1
D720	407 125 8209	DIODE HSS271	1	D735	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1	or	407 008 0405	DIODE GMB01-BT	1
D721	407 125 8209	DIODE HSS271	1	D736	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1	or	407 008 0405	DIODE GMB01-BT	1
D722	407 125 8209	DIODE HSS271	1	D737	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1	or	407 008 0405	DIODE GMB01-BT	1
D723	407 125 8209	DIODE HSS271	1	D738	407 125 8209	DIODE HSS271	1
or	407 008 0405	DIODE GMB01-BT	1	or	407 008 0405	DIODE GMB01-BT	1
D724	407 005 3805	DIODE DS442-BT	1	D739	407 125 8209	DIODE HSS271	1
D725	407 005 3805	DIODE DS442-BT	1	or	407 008 0405	DIODE GMB01-BT	1
D726	407 005 3805	DIODE DS442-BT	1	D740	407 125 8209	DIODE HSS271	1
D727	407 125 8209	DIODE HSS271	1	or	407 008 0405	DIODE GMB01-BT	1
or	407 008 0405	DIODE GMB01-BT	1	C701	403 046 4603	ELECT 33U M 25V	1
R701	401 026 3905	CARBON 330 JA 1/6W	1	C702	403 038 2402	ELECT 100U M 6.3V	1
R702	401 026 3905	CARBON 330 JA 1/6W	1	C703	403 001 1906	CERAMIC 0.01U M 16V	1
R703	401 026 3905	CARBON 330 JA 1/6W	1	C704	403 069 1207	CERAMIC 1000P K 50V	1
R704	401 025 1308	CARBON 150 JA 1/6W	1	C705	403 050 3708	ELECT 22U M 50V	1
R705	401 014 2903	CARBON 150 JA 1/4W	1	C706	403 050 3708	ELECT 22U M 50V	1
R706	401 014 2903	CARBON 150 JA 1/4W	1	C707	403 051 2106	ELECT 4.7U M 50V	1
R707	401 018 2800	CARBON 330 JA 1/4W	1	C708	403 051 2106	ELECT 4.7U M 50V	1
R708	401 014 2903	CARBON 150 JA 1/4W	1	C709	403 042 3600	ELECT 100U M 16V	1
ASSY,PCB,TAPE CONTROL				C710	403 042 3600	ELECT 100U M 16V	1
68	620 208 3254	Assy,PCB,Tape Control	1	C711	403 060 2807	POLYESTER 0.027U K 50V	1
CA701	620 201 8188	Assy,Connector-S,7P	1	C712	403 060 2807	POLYESTER 0.027U K 50V	1
CA702	620 201 8188	Assy,Connector-S,7P	1	C713	403 051 2106	ELECT 4.7U M 50V	1
CA703	620 201 8164	Assy,Connector-S,3P	1	C714	403 050 3708	ELECT 22U M 50V	1
CA704	620 208 3711	Assy,Connector-S,5P	1	C715	403 049 5508	ELECT 10U M 50V	1
JW701	620 208 3728	Assy,Connector-S,9P	1	R711	401 148 7607	MT-FILM 10K GC 1/4W	1
JW702	620 208 3735	Assy,Connector-S,10P	1	R712	401 148 7607	MT-FILM 10K GC 1/4W	1
JW703	620 208 4039	Assy,Terminal,1P	1	R713	401 012 8105	CARBON 100K JA 1/4W	1
PL701	620 200 1562	Connector-P,7P	1	R714	401 024 7707	CARBON 100K JA 1/6W	1
PL702	620 205 5411	Connector-P,9P	1	R715	401 165 7703	MT-FILM 27K GC 1/4W	1
PL703	620 200 1562	Connector-P,7P	1	R716	401 165 7703	MT-FILM 27K GC 1/4W	1
PL704	620 021 4094	Plug 3P	1	R717	401 016 4806	CARBON 22K JA 1/4W	1
VR701	620 203 1835	Potentiometer,10KB	1	R718	401 025 8208	CARBON 22K JA 1/6W	1
VR702	620 203 1835	Potentiometer,10KB	1	R719	401 012 7009	CARBON 10K JA 1/4W	1
VR703	620 203 1842	Potentiometer,20KB	1	R720	401 024 7400	CARBON 10K JA 1/6W	1
VR704	620 203 1842	Potentiometer,20KB	1	R721	402 015 3708	FUSIBLE RES 2.2 J- 1/4W	1
W702	620 209 8944	Assy,Terminal,1P	1	R722	401 017 0807	CARBON 270 JA 1/4W	1
				R723	401 027 2600	CARBON 5.6K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R724	401 027 2600	CARBON 5.6K JA 1/6W	1
R725	401 025 6501	CARBON 20K JA 1/6W	1
R726	401 025 6501	CARBON 20K JA 1/6W	1
R727	401 027 2105	CARBON 56 JA 1/6W	1
R728	401 027 2105	CARBON 56 JA 1/6W	1
R729	401 024 7707	CARBON 100K JA 1/6W	1
R730	401 024 7707	CARBON 100K JA 1/6W	1
R731	401 024 7707	CARBON 100K JA 1/6W	1
R732	401 024 7707	CARBON 100K JA 1/6W	1
R733	401 024 7707	CARBON 100K JA 1/6W	1
R734	401 012 7009	CARBON 10K JA 1/4W	1
R735	401 024 7400	CARBON 10K JA 1/6W	1
R736	401 026 9600	CARBON 470 JA 1/6W	1
R737	401 024 7707	CARBON 100K JA 1/6W	1
R738	401 027 9005	CARBON 82K JA 1/6W	1
R739	401 024 7400	CARBON 10K JA 1/6W	1
R740	401 024 7707	CARBON 100K JA 1/6W	1
R741	401 025 8208	CARBON 22K JA 1/6W	1
R742	401 024 7400	CARBON 10K JA 1/6W	1
R743	401 024 7400	CARBON 10K JA 1/6W	1
R744	401 024 7400	CARBON 10K JA 1/6W	1
R745	401 012 7009	CARBON 10K JA 1/4W	1
R746	401 012 7009	CARBON 10K JA 1/4W	1
R747	401 024 7400	CARBON 10K JA 1/6W	1
R748	401 027 0309	CARBON 47K JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
R32	401 024 7400	CARBON 10K JA 1/6W	1
R33	401 027 0507	CARBON 470K JA 1/6W	1
R34	401 027 0309	CARBON 47K JA 1/6W	1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

ASSY,PCB,POWER TRANS

69	620 208 3261	Assy,PCB,Power Trans	1
	620 022 2587	EC Terminal 1P	2
	620 207 9158	Fuse Holder,Taping	10
	620 053 6899	Cover Safety	1
	620 125 8424	Wire Band	2
CA901	620 208 3780	Assy,Connector-S,7P	1
C901 Δ	620 006 6679	Capacitor 0.01MF400V	1
F901 Δ	423 007 2103	FUSE 250V T4A	1
F902 Δ	423 007 2103	FUSE 250V T4A	1
F903 Δ	423 005 5205	FUSE 250V T1.6A	1
F904 Δ	423 004 3301	FUSE 250V T0.8A	1
F905 Δ	423 004 3301	FUSE 250V T0.8A	1
RY901	620 017 0390	Relay	1
W951	620 208 3797	Wire,5P	1
D901	407 004 9105	DIODE DSF10C-BT	1
D902	407 004 9105	DIODE DSF10C-BT	1
D903	407 004 9105	DIODE DSF10C-BT	1
D904	407 004 9105	DIODE DSF10C-BT	1
C902	403 053 8908	ELECT 3300U M 35V	1
C903	404 012 7000	CERAMIC 0.01U P 500V	1
C904	404 012 7000	CERAMIC 0.01U P 500V	1
C905	404 012 7000	CERAMIC 0.01U P 500V	1
C906	404 012 7000	CERAMIC 0.01U P 500V	1

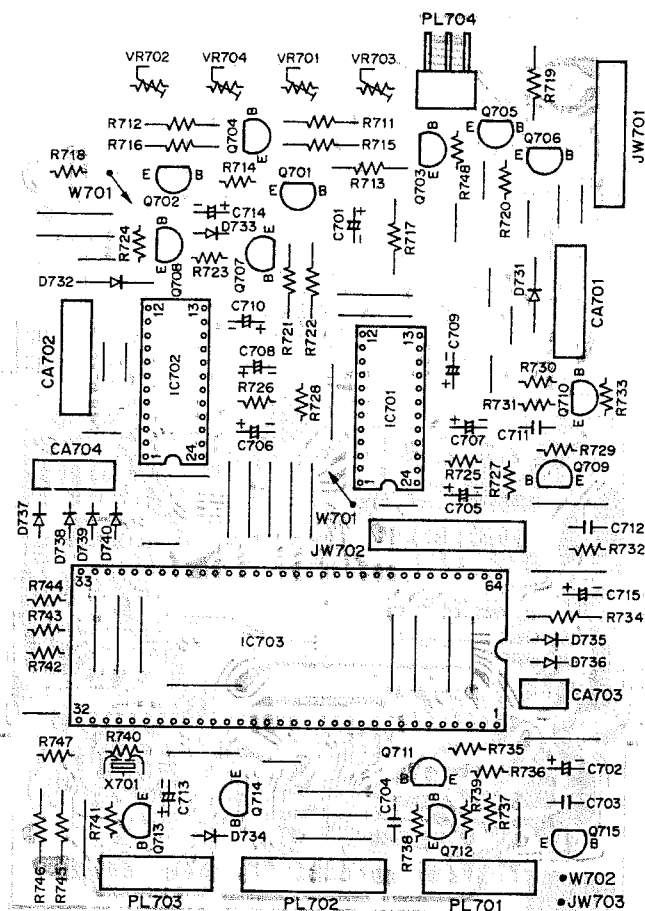
ASSY,PCB,SUB TRANS

70	620 208 3278	Assy,PCB,Sub Trans	1
	620 207 9158	Fuse Holder,Taping	4
CN902	620 020 3753	Socket Jumper 7P	1
F906 Δ	423 003 9809	FUSE 250V T0.63A	1
F907 Δ	423 003 9809	FUSE 250V T0.63A	1
Q901	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
D905	407 004 9105	DIODE DSF10C-BT	1
D906	407 004 9105	DIODE DSF10C-BT	1
D907	407 004 9105	DIODE DSF10C-BT	1
C907	403 053 4405	ELECT 2200U M 35V	1
C908	404 012 7000	CERAMIC 0.01U P 500V	1
C909	404 012 7000	CERAMIC 0.01U P 500V	1

ASSY,PCB,REC DET

71	620 210 1118	Assy,PCB,REC DET	1
Q31	405 004 4502	TR 2SA608-F-NP-AA	1
Q31	405 004 4601	TR 2SA608-F-SPA-AC	1
Q31	405 004 5004	TR 2SA608-G-NP-AA	1
Q31	405 004 5103	TR 2SA608-G-SPA-AC	1
Q32	405 019 2708	TR 2SC536-F-NP-AA	1
Q32	405 019 2807	TR 2SC536-F-SPA-AC	1
Q32	405 019 3804	TR 2SC536-G-NP-AA	1
Q32	405 019 3903	TR 2SC536-G-SPA-AC	1
D31	407 008 0405	DIODE GMB01-BT	1
C31	403 050 1308	ELECT 2.2U M 50V	1
R31	401 025 8703	CARBON 220K JA 1/6W	1

TAPE CONTROL P.C.BOARD (BOTTOM VIEW)



IC & TRANSISTOR LEAD REFERENCE VOLTAGES TABLE

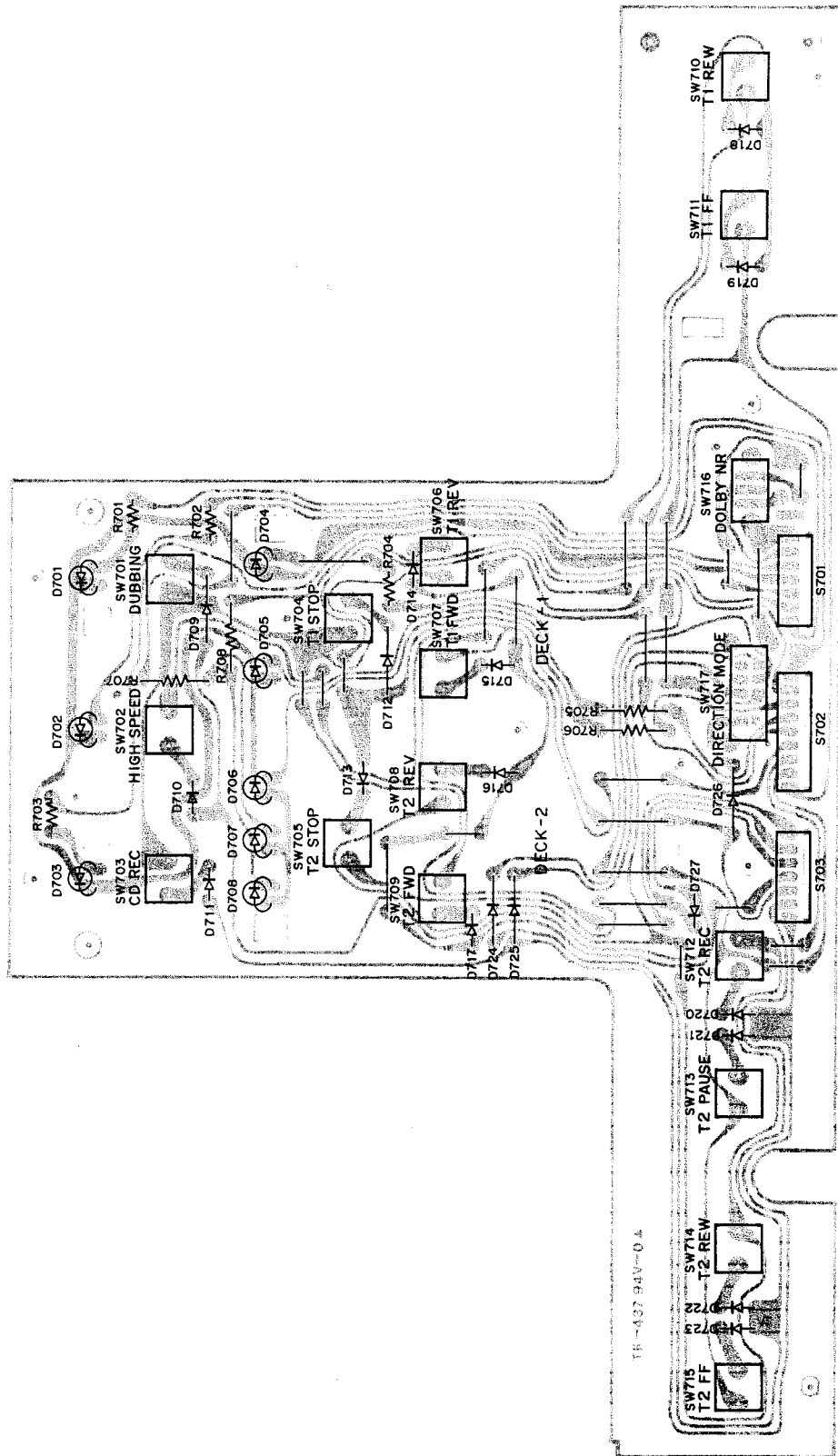
Voltage Table of Tape Control P.C.Board

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC703	M50954	5.2V	0V	0V	0.3V	0V	5.1V	0V	0.8V	3.8V	3.7V	0.8V	3.7V	3.7V	3.7V	3.7V	0V	0V	0V	0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		4.8V	0.3V	0.1V	5.2V	5.2V	0V	0V	0V	0V	0V	5.2V	0V	0V	5.2V	5.2V	5.2V	5.2V	0V	5.1V	5.2V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		0V	0V	0V	0V	0V	0V	0V	5.2V	0V	0V	0V	0V	0V	0V	5.2V	5.2V	0V	5.2V	0V	0V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		5.1V	0V	0V	5.0V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

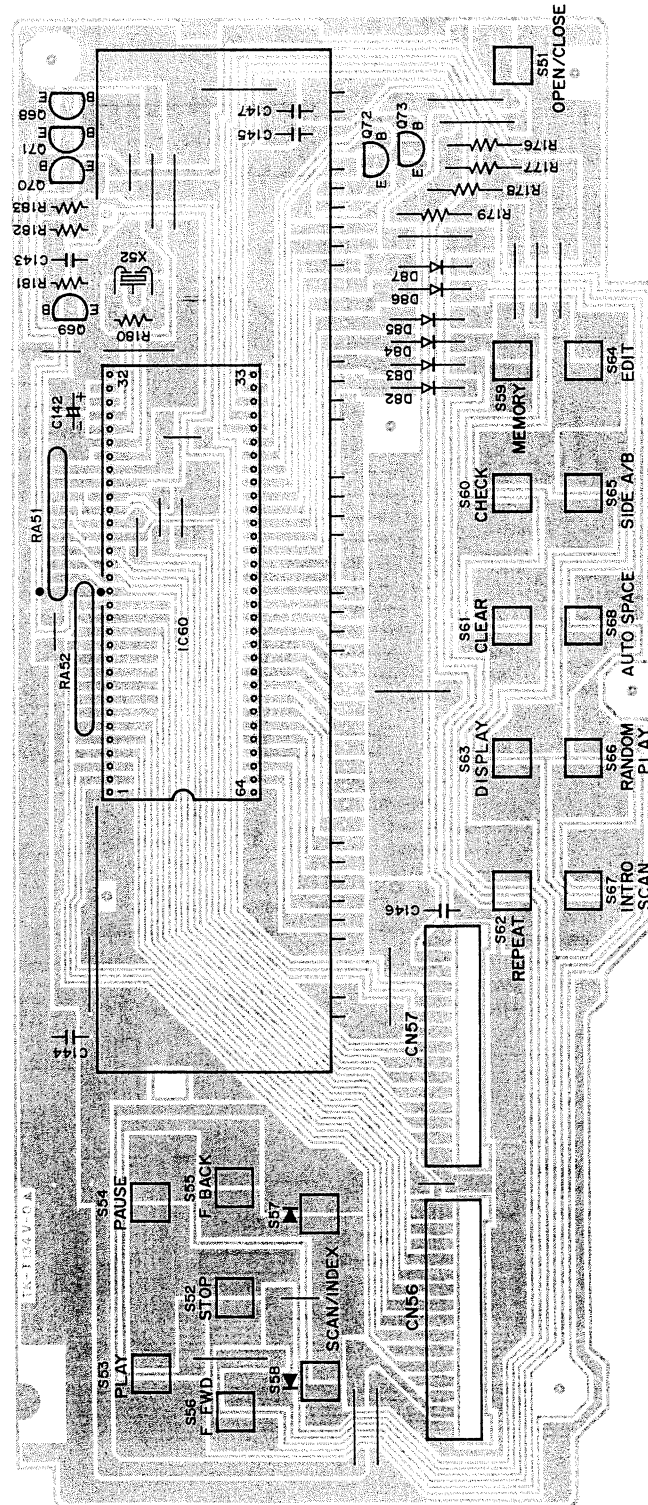
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC701,702	TA8121AN	0V	0V	0V	0V	0V	0V	0V	12.2V	11.6V	0V	0V	0V	0V	5.8V	5.8V	0.6V	8.1V	0V	7.0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		1.6V	0V	2.2V	6.1V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q701	2SB808	11.6V	12.2V	12.2V	Q706	2SA608	4.6V	5.2V	5.2V	Q711	2SC536	0V	5.2V	0V
Q702	2SB808	11.6V	12.2V	12.2V	Q707	2SD734	5.9V	8.1V	5.2V	Q712	2SC536	0V	5.2V	0V
Q703	2SC536	0.6V	0V	0V	Q708	2SC536	0V	0.7V	0V	Q713	2SC536	0V	5.2V	0V
Q704	2SC536	0.6V	0V	0V	Q709	2SC536	0V	5.2V	0V	Q714	2SC536	5.2V	5.0V	4.8V
Q705	2SC536	0V	0.6V	0V	Q710	2SC536	0V	5.2V	0V	Q715	2SC536	0.8V	1.2V	5.2V

TAPE SWITCH P.C.BOARD (BOTTOM VIEW)



CD CONTROL M95 P.C.BOARD (BOTTOM VIEW)



IC & TRANSISTOR LEAD REFERENCE VOLTAGES TABLE

Voltage Table of CD Main P.C.Board

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC51	LA9200NM	0V	0.5V	0.5V	0.6V	0.5V	0.5V	0.5V	0.5V	0.5V	0.5V	0.5V	0V	0V	0.2V	0.5V	0V	0V	0V	0V	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0.5V	0V	0V	0V	0.5V	0.4V	4.0V	0.5V	0.5V	0.5V	0.4V	3.1V	0.5V	0.5V	2.4V	2.4V	0.1V	2.4V	0V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		0.2V	0.1V	0.1V	0.6V	0.1V	0.1V	0V	0V	—	—	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC52	LC7860K	0V	2.3V	2.3V	2.4V	0V	2.4V	1.7V	0V	0V	5.0V	0V	0V	0V	2.9V	0V	4.2V	4.2V	0V	4.9V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	5.0V	0V	0V	0V	0V	0V	0V	5.0V	0V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		5.0V	5.0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		0V	0V	0V	0V	5.0V	0.8V	0V	0V	0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	2.4V	

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC53	LC3517BS	0V	0V	0V	0V	0V	0V	0V	0V	0.4V	0.4V	0.4V	0V	0V	0V	0V	0V	0V	0V	0V	5.0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		5.0V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES											
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10
IC54	LA6510	-0.8V	-0.7V	-0.7V	-0.7V	-0.4V	-0.8V	-0.8V	-0.8V	-0.8V	5.6V
IC55	LA6510	0V	0V	0V	0V	-9.3V	0V	0V	0V	0V	10.0V
IC56	NJM78M05	5.0V	0V	10.5V	-	-	-	-	-	-	-
IC57	NJM79L05A	0V	-10.8V	-4.9V	-	-	-	-	-	-	-

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC58	LC97000P	0V	0V	0V	0V	0.7V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES									
Ref. No.	DEVICE	1	2	3	4	5	6	7	8
IC59	UPC4570C	0.3V	0.3V	0.2V	-4.7V	0.2V	0.3V	0.3V	4.8V

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC60	M50957	5.0V	0V	0V	0V	0V	5.0V	5.0V	5.0V	5.0V	5.0V	5.0V	5.0V	4.3V	3.8V	0V	0V	5.0V	0V	5.0V	5.0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	5.0V	0V	0V	5.0V	2.0V	0.9V	0V	0V	0V	0V	-0.8V	-0.8V	-0.8V	-0.8V	-22.7V	-20.0V	-20.1V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		-20.1V	-20.1V	-20.1V	-20.1V	-20.1V	-20.1V	-20.1V	-20.1V	-22.6V	-11.7V	-11.6V	-22.6V	-13.8V	-18.2V	-18.2V	-11.6V	-18.1V	-18.2V	-11.5V	-18.2V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		-18.1V	-11.5V	-18.2V	-6.9V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q51	2SC536	0.5V	0V	0V	Q58	2SC3400	-0.8V	0.3V	-0.8V	Q65	2SC3400	6.1V	0V	0V
Q52	2SA608	4.7V	5.0V	5.0V	Q59	2SA608	1.3V	-0.7V	1.2V	Q68	2SC3400	0V	0V	0V
Q53	2SC536	0.6V	0V	0V	Q60	2SD1012	-0.5V	-0.7V	-0.7V	Q69	2SC536	0V	5.0V	0V
Q54	2SC536	0.6V	0V	0V	Q61	2SD1012	-0.5V	-0.7V	-0.7V	Q70	2SC536	0V	5.0V	0V
Q55	2SD1012	0.6V	0V	0V	Q62	2SA608	-28.0V	-28.7V	-27.3V	Q71	2SC3400	0V	0V	0V
Q56	2SC3400	4.3V	0V	0V	Q63	2SA608	3.8V	4.4V	4.4V	Q72	2SC3400	-20.1V	5.0V	-20.2V
Q57	2SC3400	4.3V	0V	0V	Q64	2SC536	0.6V	0V	0V	Q73	2SC3400	-20.0V	5.0V	-20.1V

IC & TRANSISTOR LEAD REFERENCE VOLTAGES TABLE (Continued)

Voltage Table of Amplifier Tuner P.C.Board

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC221	LA1265	2.4V	2.4V	2.4V	0V	10.7V	10.7V	10.7V	4.5V	3.7V	3.2V	1.4V	1.4V	0V	0V	2.4V	1.4V	0V	0V	0.6V	4.0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		4.0V	2.2V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC222	LA3401	3.1V	3.1V	3.1V	3.1V	6.7V	3.1V	3.1V	6.7V	3.1V	0V	0.2V	0V	5.3V	4.9V	0V	0.5V	2.7V	2.4V	2.6V	2.6V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		3.3V	12.5V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

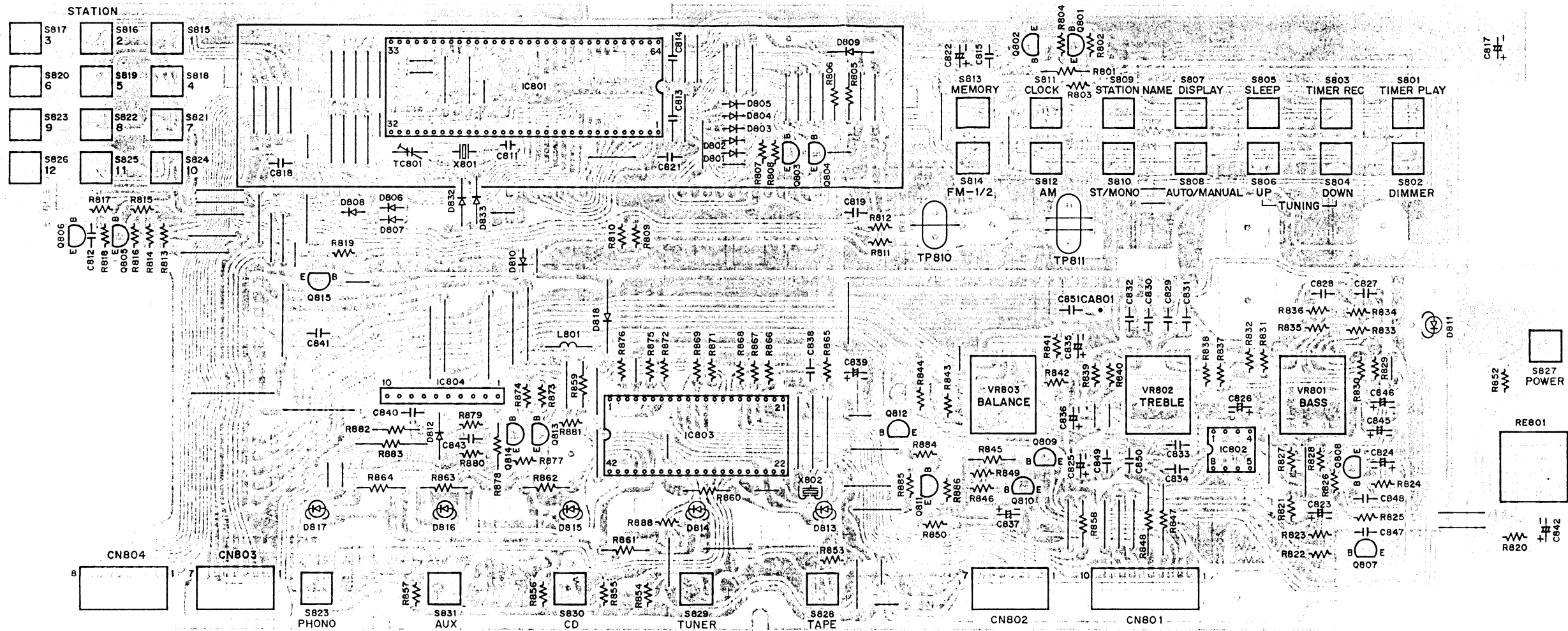
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC223	LM7001	1.5V	1.5V	0V	0V	0V	0V	0V	0V	10.6V	0V	2.8V	5.4V	5.3V	0.8V	0.3V	0V	—	—	—	—
IC224	LA5667	20.5V	0V	4.8V	20.5V	5.5V	0V	13.4V	—	—	—	—	—	—	—	—	—	—	—	—	—
IC225	UPC1330HA	0V	0V	0V	0V	0V	8.9V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—	—
IC226	LA3246	0V	0V	0.5V	3.2V	3.2V	0V	0V	3.1V	0V	0V	7.8V	7.8V	7.0V	0V	5.2V	3.1V	3.1V	0.5V	0V	0V
IC227	CXA1101P	6.0V	11.8V	5.9V	6.0V	9.8V	6.0V	0.3V	6.0V	6.0V	0.3V	6.1V	0V	1.2V	6.0V	0V	6.0V	—	—	—	—
IC228	LA2000	1.9V	0V	1.9V	0V	0V	0V	1.0V	0V	10.8V	—	—	—	—	—	—	—	—	—	—	—
IC229	LA6458D	0V	0V	0V	— 13.0V	0V	0V	0V	13.4V	—	—	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC230	LC7823	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	- 13.7V	0V	0V	0V	0V	14.2V	14.1V	14.2V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES																			
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC231	LA6458S	11.0V	5.9V	5.9V	5.9V	0V	59V	6.0V	5.9V	11.0V	—	—	—	—	—	—	—	—	—
IC232	STK4182MK2	−0.1V	−0.1V	0V	−41.2V	−1.3V	0V	−43.2V	−43.9V	−44.5V	0V	44.5V	43.0V	0V	−44.6V	−1.3V	0V	−0.1V	−0.1V

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q202	2SC2999	0.5V	11.9V	0V	Q308	2SC536	0.6V	0V	0V	Q328	2SC536	0.6V	0V	0V
Q203	2SC2999	5.8V	11.8V	5.3V	Q309	2SC536	0.6V	0V	0V	Q329	2SC3708	0.2V	.2V	0V
Q222	2SC536	0V	3.9V	0V	Q310	2SC536	0.6V	0V	0V	Q330	2SA608	12.5V	0.4V	12.6V
Q223	2SC2839	1.3V	9.0V	0.7V	Q311	2SC1570	1.6V	6.0V	1.0V	Q331	2SA608	11.9V	12.6V	12.6V
Q224	2SA1346	10.7V	0V	10.7V	Q312	2SC1570	1.6V	6.0V	1.0V	Q332	2SC536	0V	12.6V	0V
Q226	2SC536	12.6V	12.9V	11.9V	Q313	2SA608	4.4V	5.0V	5.1V	Q333	2SC536	0.6V	0V	0V
Q227	2SC536	0.6V	0V	0V	Q314	2SC536	0V	0.9V	0V	Q334	2SD438	14.8V	31.5V	14.2V
Q228	2SA1346	5.3V	—0.3V	5.3V	Q317	2SC536	1.0V	12.9V	0.4V	Q335	2SB560	—14.4V	—31.2V	—13.8V
Q229	2SD1012	0V	0V	0V	Q318	2SC536	0V	12.9V	0.1V	Q336	2SC536	0.6V	0V	0V
Q230	2SD1012	—0.1V	0V	0V	Q319	2SC536	0.4V	0V	0V	Q337	2SD1913	12.8V	20.9V	12.2V
Q232	2SC3068	0.5V	2.5V	0V	Q320	2SC536	0V	0V	0V	Q338	2SD1913	8.7V	20.6V	8.1V
Q301	2SB560	—27.8V	—40.5V	—27.2V	Q321	2SC536	0V	0V	0V			G	D	S
Q302	2SA608	4.7V	5.4V	5.4V	Q322	2SC536	0V	0V	0V	Q201	3SK73	0V	3.5V	0V
Q303	2SC536	0.6V	0V	0V	Q323	2SC536	0.6V	0V	0V	Q204	2SK544	0V	0V	11.3V
Q304	2SA608	12.5V	12.9V	13.4V	Q324	2SC536	0.6V	0V	0V	Q205	2SK544	0V	0V	11.7V
Q305	2SC536	0.6V	0V	0V	Q325	2SC536	0V	0V	0V	Q221	2SK246	3.6V	11.0V	5.9V
Q306	2SC536	0.6V	0V	0V	Q326	2SC536	0V	0.6V	0V	Q231	2SK246	0.8V	0V	1.1V
Q307	2SC536	0V	0V	0V	Q327	2SC536	0V	0V	0.6V					

FRONT CONTROL PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



IC & TRANSISTOR LEAD REFERENCE VOLTAGES TABLE

Voltage Table of Front Control P.C.Board

		IC PIN NUMBERS DC VOLTAGES																			
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC801	TMP47C870N	-27.2V	-27.0V	-19.6V	-24.3V	-21.9V	0V	-24.0V	-21.1V	-21.0V	-18.8V	-18.9V	-14.4V	-26.7V	0V	0V	0.9V	0.9V	0V	2.2V	2.2V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		4.6V	4.8V	0V	0V	0V	0V	0V	0V	0V	0.1V	0.1V	0V	5.4V	0V	0V	0.4V	0.4V	0V	1.3V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		5.5V	0V	5.5V	0V	0V	0V	0V	-26.0V	-26.0V	-26.0V	-26.1V	-26.1V	-26.1V	-26.1V	-26.0V	-26.1V	-26.1V	-26.0V	-26.1V	-24.2V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

IC PIN NUMBERS DC VOLTAGES									
Ref. No.	DEVICE	1	2	3	4	5	6	7	8
IC802	LA6456D	0.6V	0.5V	0V	0.5V	0V	0.4V	0.6V	1.1V

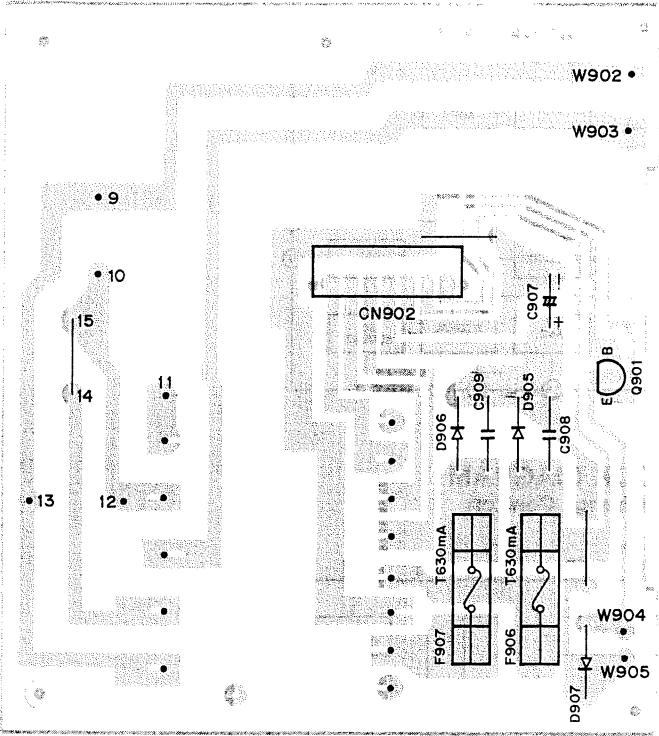
Voltage Table of Front Control P.C.Board

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC803	LC6520H	0V	0.1V	4.8V	4.8V	0V	0V	0V	0.7V	0V	0V	0V	0.1V	0V	0V	4.8V	0V	0V	0V	0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		2.1V	1.7V	4.8V	0.5V	0.3V	0.3V	4.7V	0.8V	0.8V	0.8V	0.8V	0.7V	4.7V	4.7V	0.3V	0.3V	5.0V	0.3V	0.3V	4.8V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		- 0.1V	0V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IC PIN NUMBERS DC VOLTAGES									
Ref. No.	DEVICE	1	2	3	4	5	6	7	8
IC804	LB1641	0V	0.5V	0.7V	0.4V	0V	0V	11.7V	12.2V

TRANSISTOR DC VOLTAGES									
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q801	2SA608	4.8V	-1.1V	2.2V	Q808	2SC1570	0V	0.9V	0.5V
Q802	2SC536	-1.6V	4.6V	0V	Q809	2SD1012	0.6V	0V	0V
Q803	2SC3330	-24.8V	4.7V	-24.8V	Q810	2SD1012	0.6V	0V	0V
Q804	2SC3330	-24.8V	4.7V	-24.8V	Q811	2SA608	4.1V	4.7V	4.7V
Q805	2SC536	0V	5.5V	0V	Q812	2SC536	0.7V	0V	0V
Q806	2SC536	0V	5.5V	0V	Q813	2SC536	4.8V	0V	0V
Q807	2SC1570	0V	0.9V	0.5V	Q814	2SC536	4.7V	0V	0V

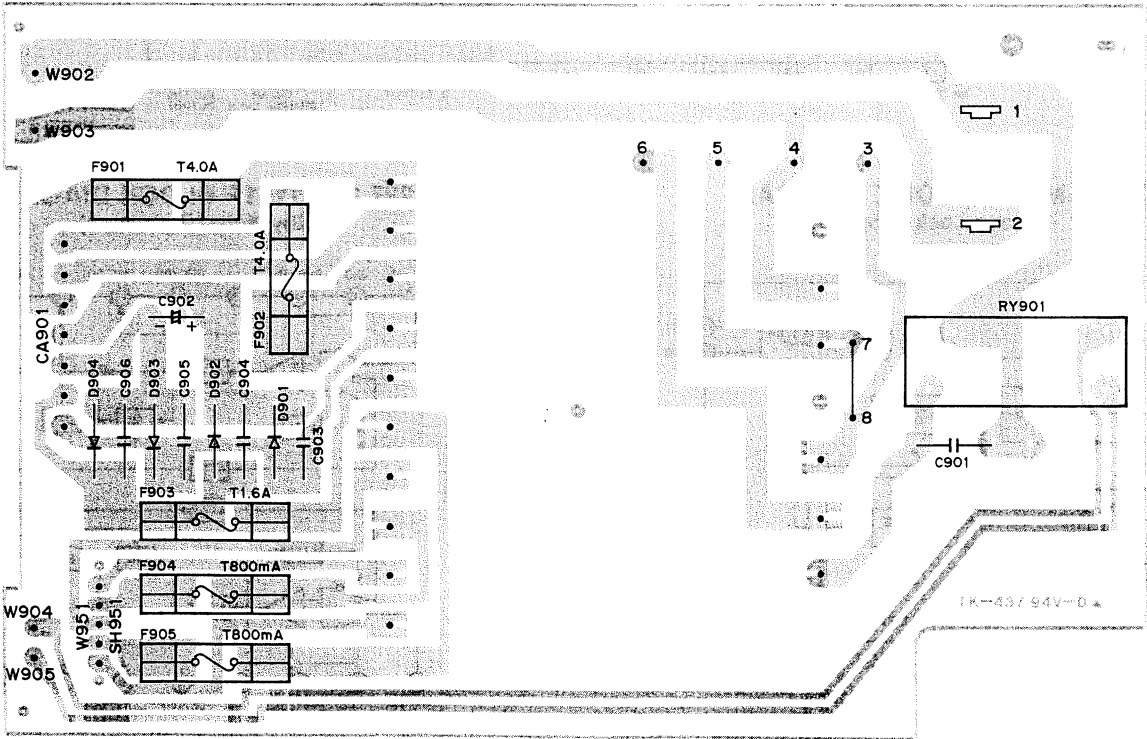
SUB TRANS P.C.BOARD (BOTTOM VIEW)



Voltage Table of Sub Trans P.C.Board

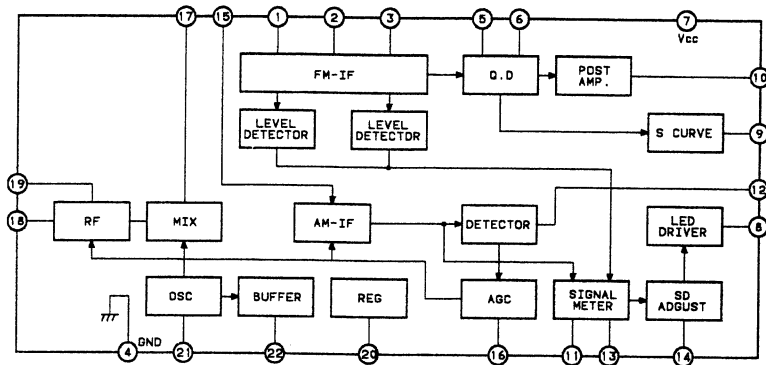
TRANSISTOR DC VOLTAGES				
Ref. No.	DEVICE	B	C	E
Q901	2SC536	0.7V	0V	0V

POWER TRANS P.C.BOARD (BOTTOM VIEW)

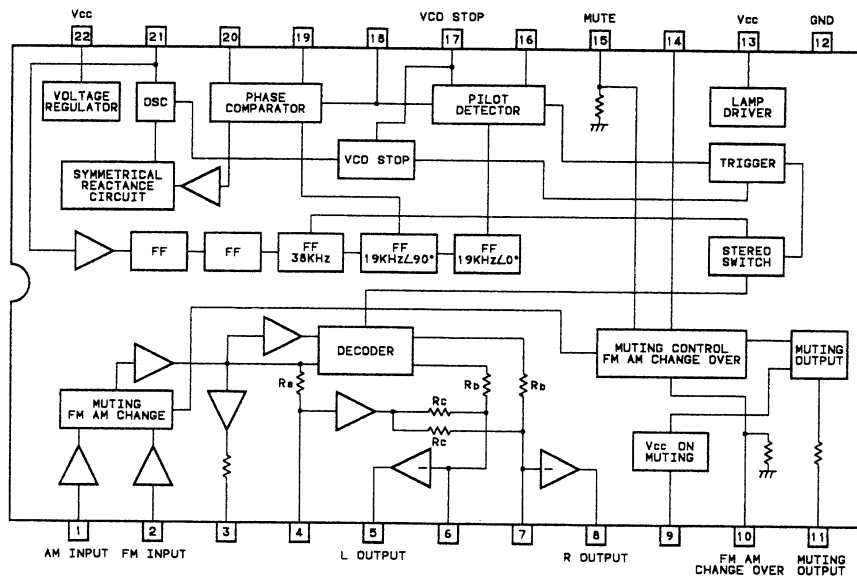


IC BLOCK DIAGRAM

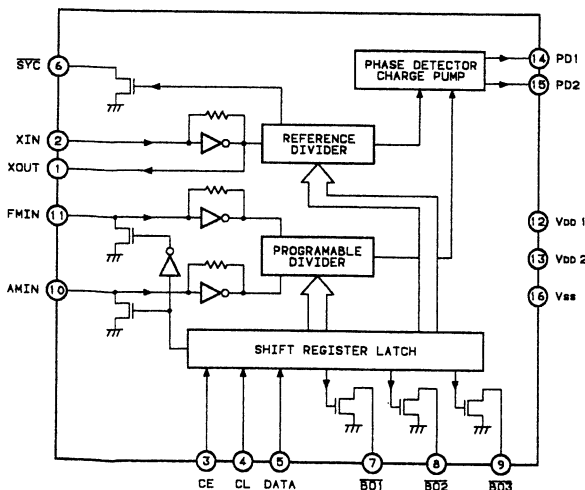
IC221 LA1265 BLOCK DIAGRAM
(FM/AM IF & Detector)



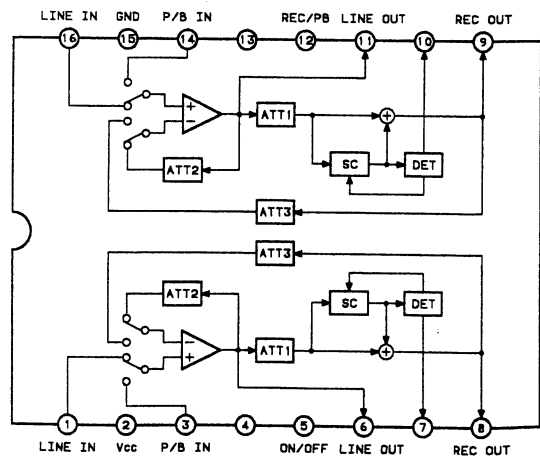
IC222 LA3401 BLOCK DIAGRAM
(FM MPX & FM AM Change Control)



IC223 LM7001 BLOCK DIAGRAM
(Phase Lock Loop)

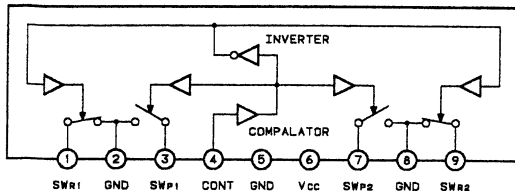


IC227 CXA1101P BLOCK DIAGRAM
(Dolby Noise Reduction)

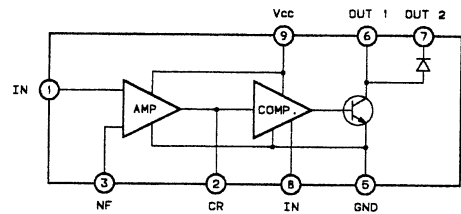


IC BLOCK DIAGRAM (Continued)

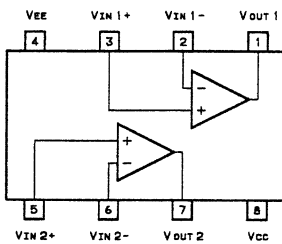
IC225 UPC1330HA BLOCK DIAGRAM
(Tape 1/2 Selector)



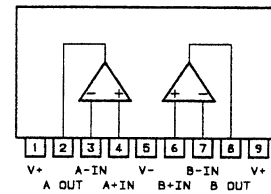
IC228 LA2000 BLOCK DIAGRAM
(Audio Level Sensor)



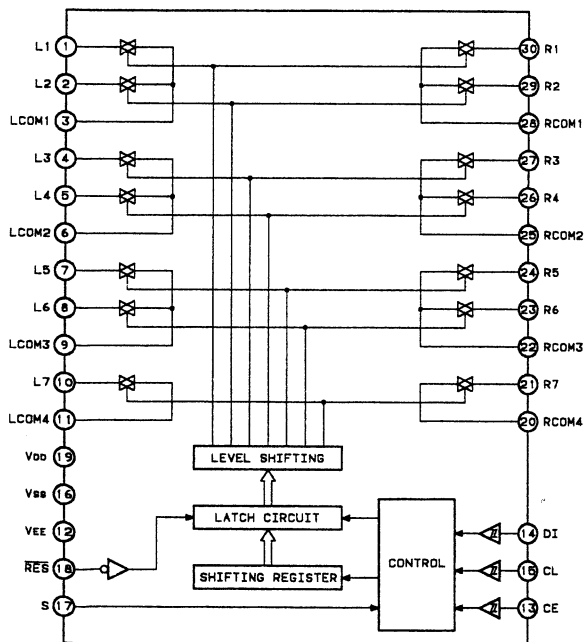
IC229 LA6458D BLOCK DIAGRAM
(Dual Operation Amp.)



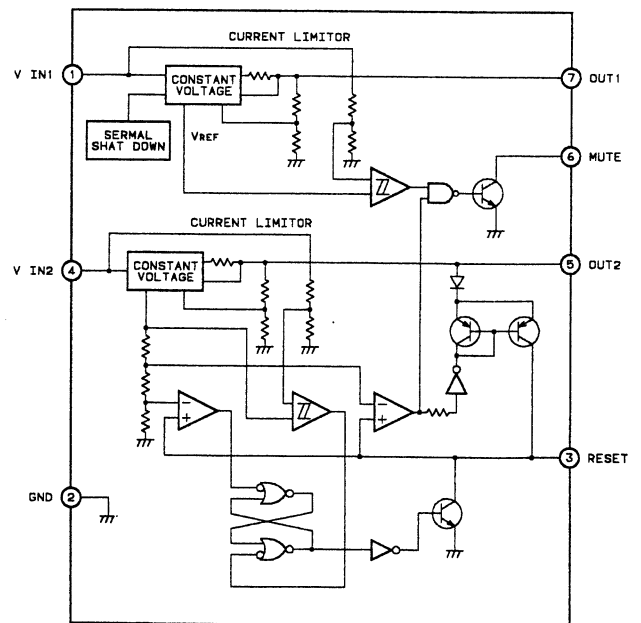
IC231 LA6458S BLOCK DIAGRAM
(Dual Operation Amp.)



IC230 LC7823 BLOCK DIAGRAM
(Function Selector)

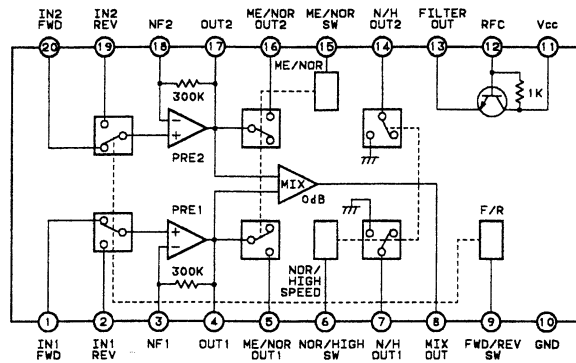


IC224 LA5667 BLOCK DIAGRAM
(Constant Voltage Regulated Power Supply)

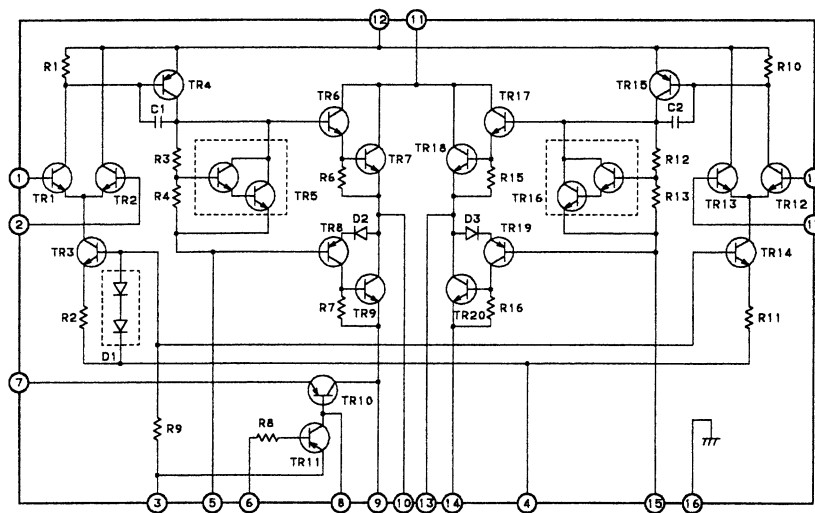


IC BLOCK DIAGRAM (Continued)

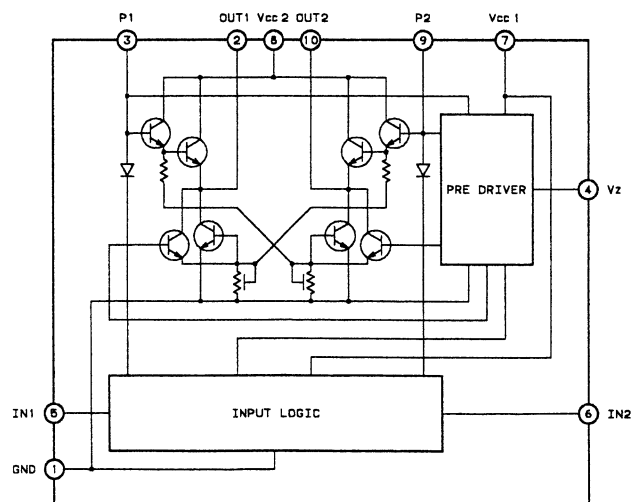
IC226 LA3246 BLOCK DIAGRAM (Tape Play Pre. Amplifier)



IC232 STK4182MK2 BLOCK DIAGRAM (Power Amplifier)



IC804 LB1641 BLOCK DIAGRAM (Motor Driver)

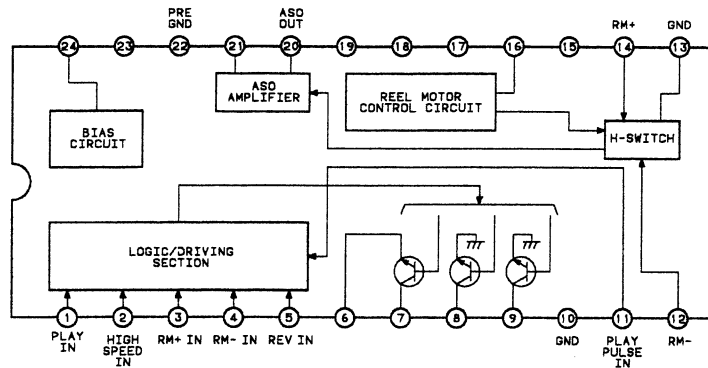


IC803 LC6520H-4474 BLOCK DIAGRAM (Function Control Micom)

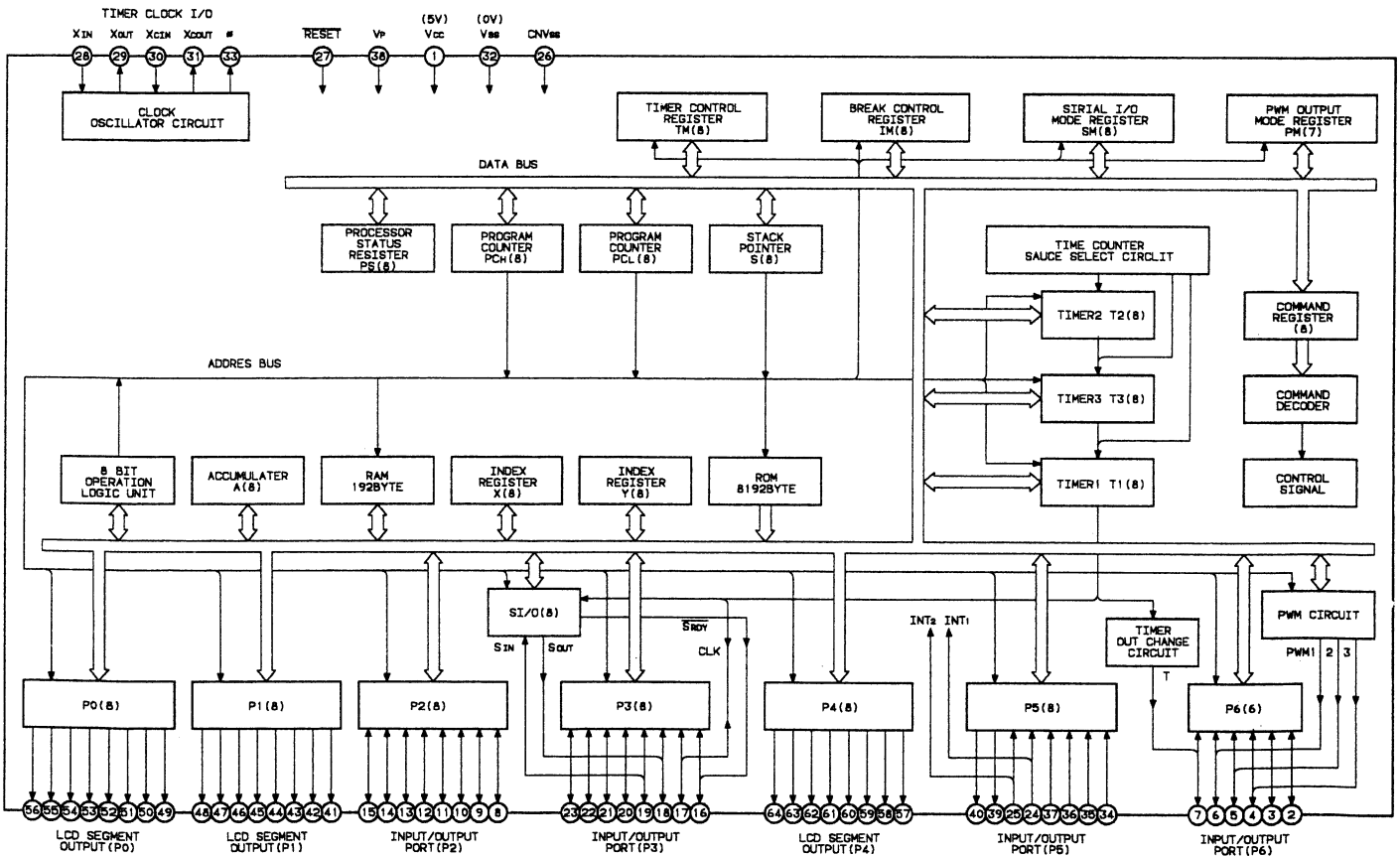


IC BLOCK DIAGRAM (Continued)

IC701/IC702 TA8121AN BLOCK DIAGRAM (Reel Motor Control)

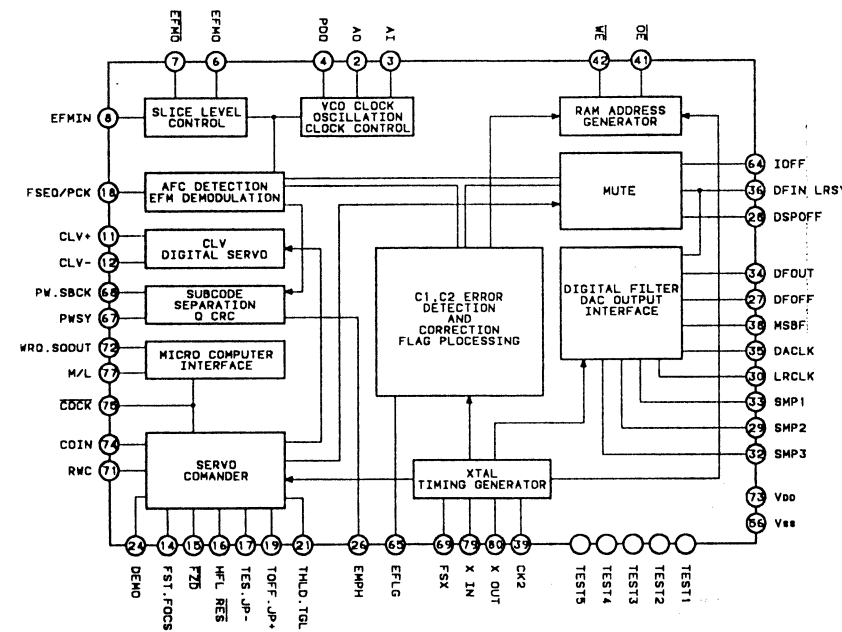


IC703 M50954-131SP BLOCK DIAGRAM (Mechanism & Deck Amp. Control Micom)

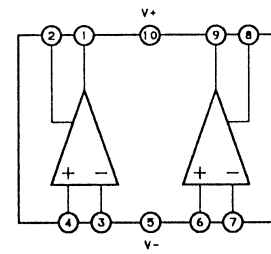


IC BLOCK DIAGRAM (Continued)

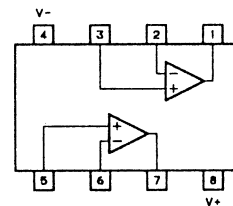
IC52 LC7860K BLOCK DIAGRAM
(Digital Signal Processor)



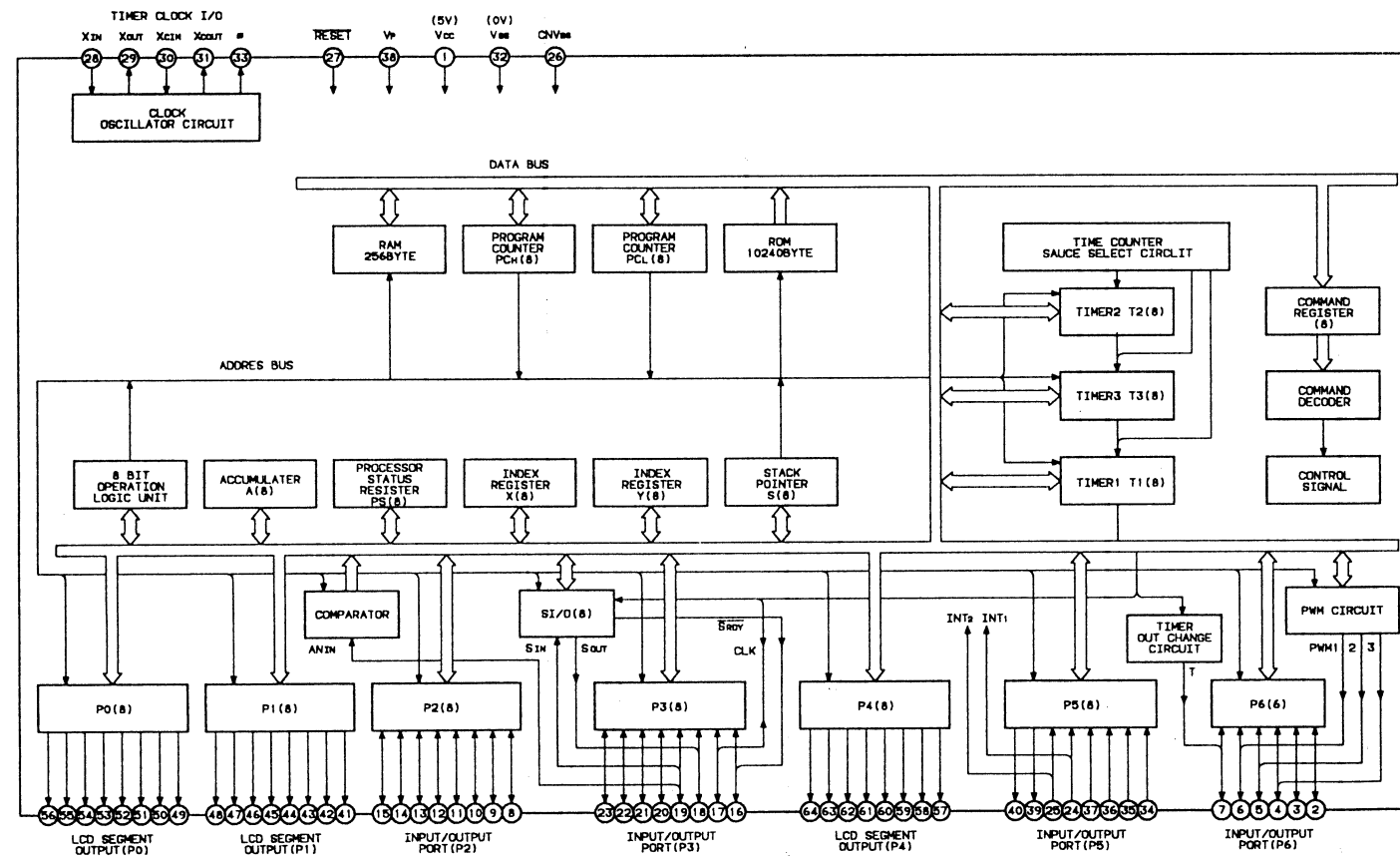
IC54/IC55 LA6510 BLOCK DIAGRAM
(Dual Operational Amp.)



IC59 UPC4570C BLOCK DIAGRAM
(Dual Operational Amp.)

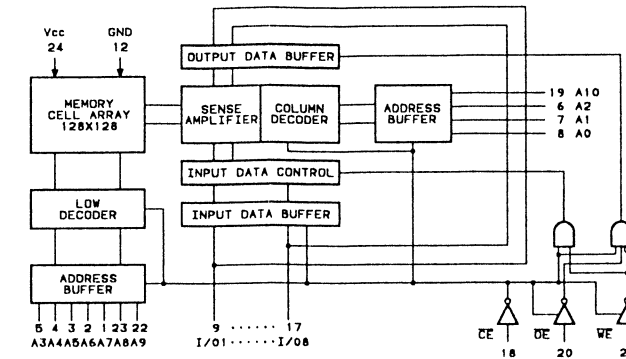


IC60 M50957-213SP BLOCK DIAGRAM
(CD Player System Control Micom)

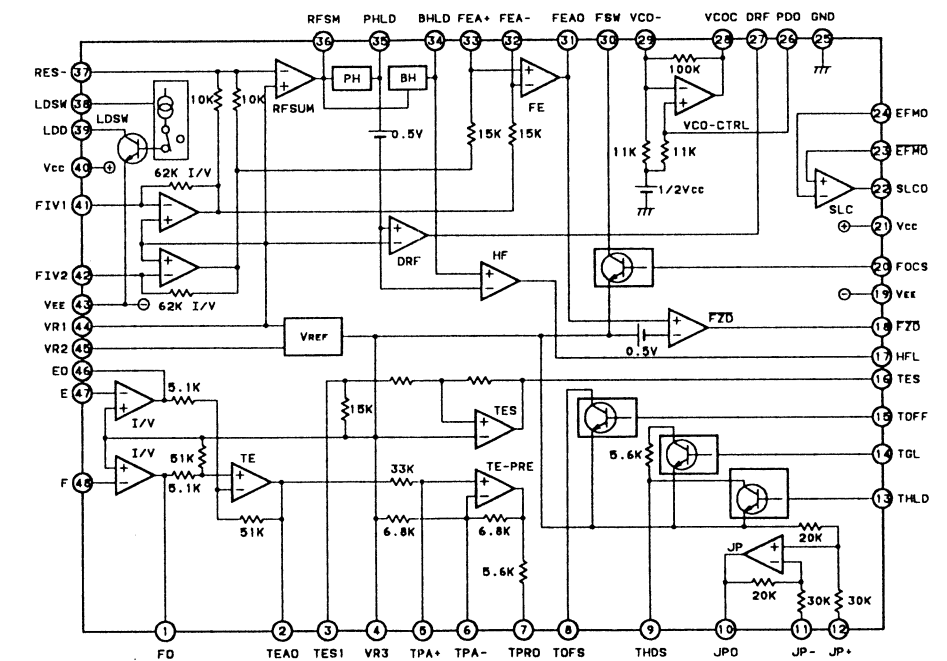


IC BLOCK DIAGRAM (Continued)

IC53 LC3517BS-15 BLOCK DIAGRAM
(Static RAM 2K Word x 8-Bit)

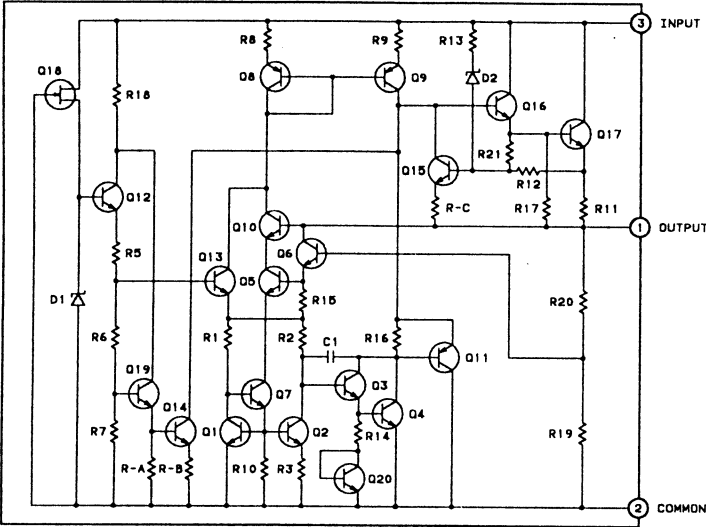


IC51 LA9200NM BLOCK DIAGRAM
(Servo Signal Processor)

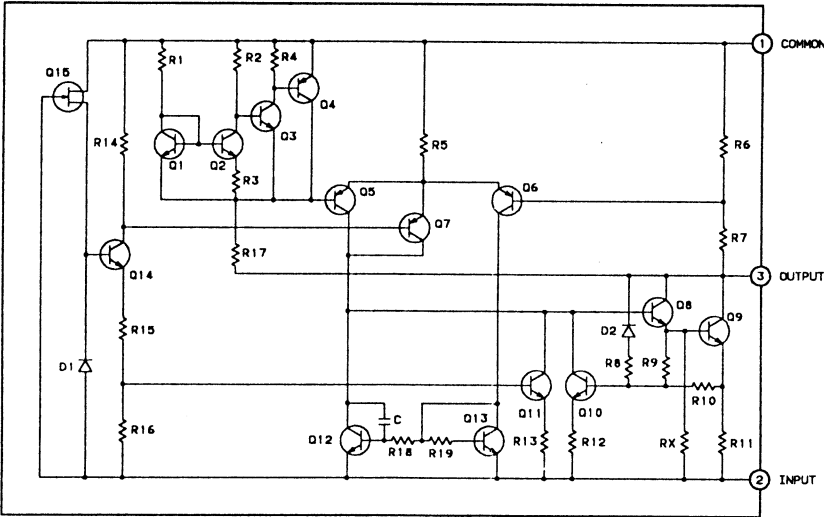


IC BLOCK DIAGRAM (Continued)

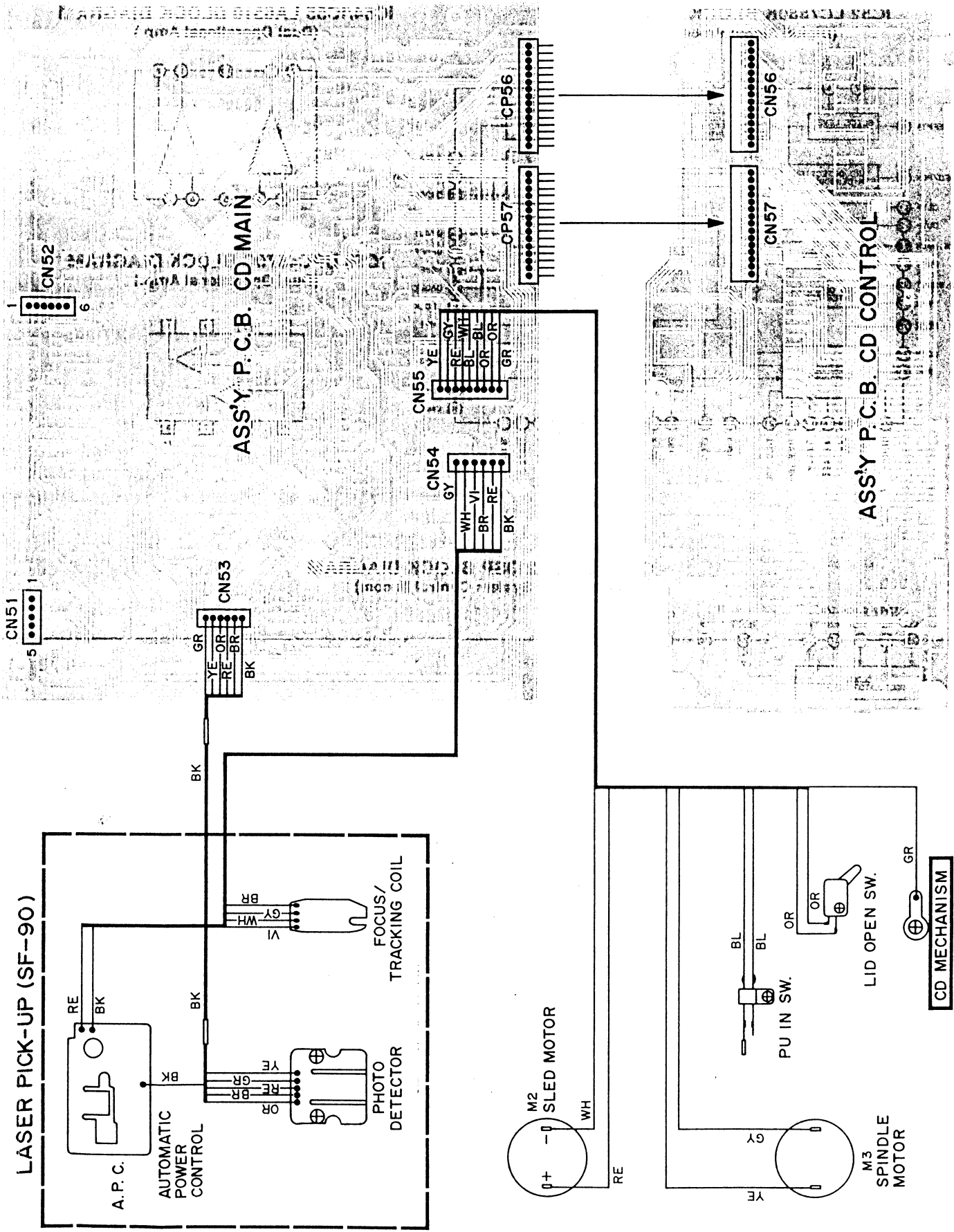
IC56 NJM78M05FA BLOCK DIAGRAM
(Constant Voltage Regulated Power Supply)



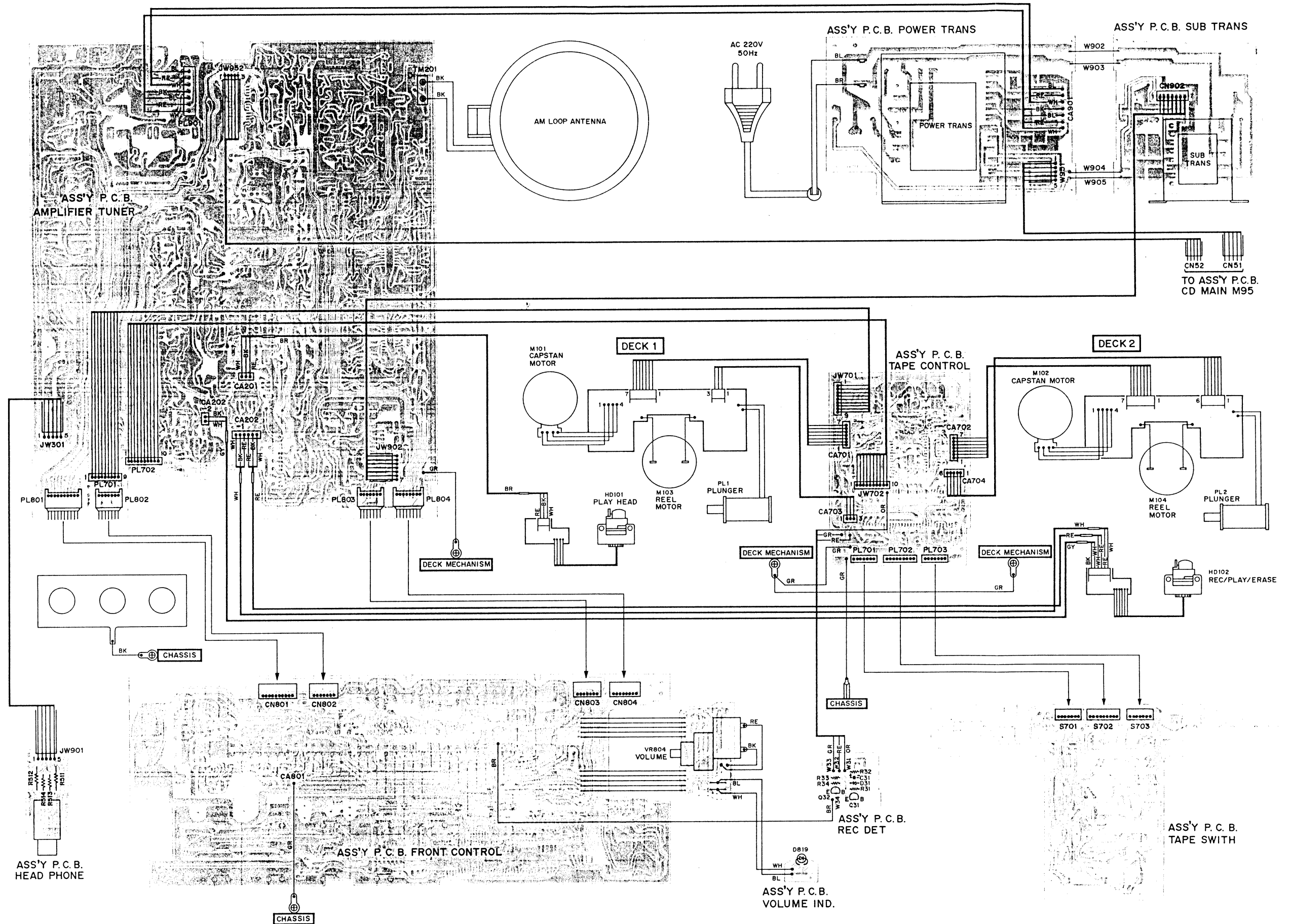
IC57 NJM79L05A BLOCK DIAGRAM
(Constant Voltage Regulated Power Supply)



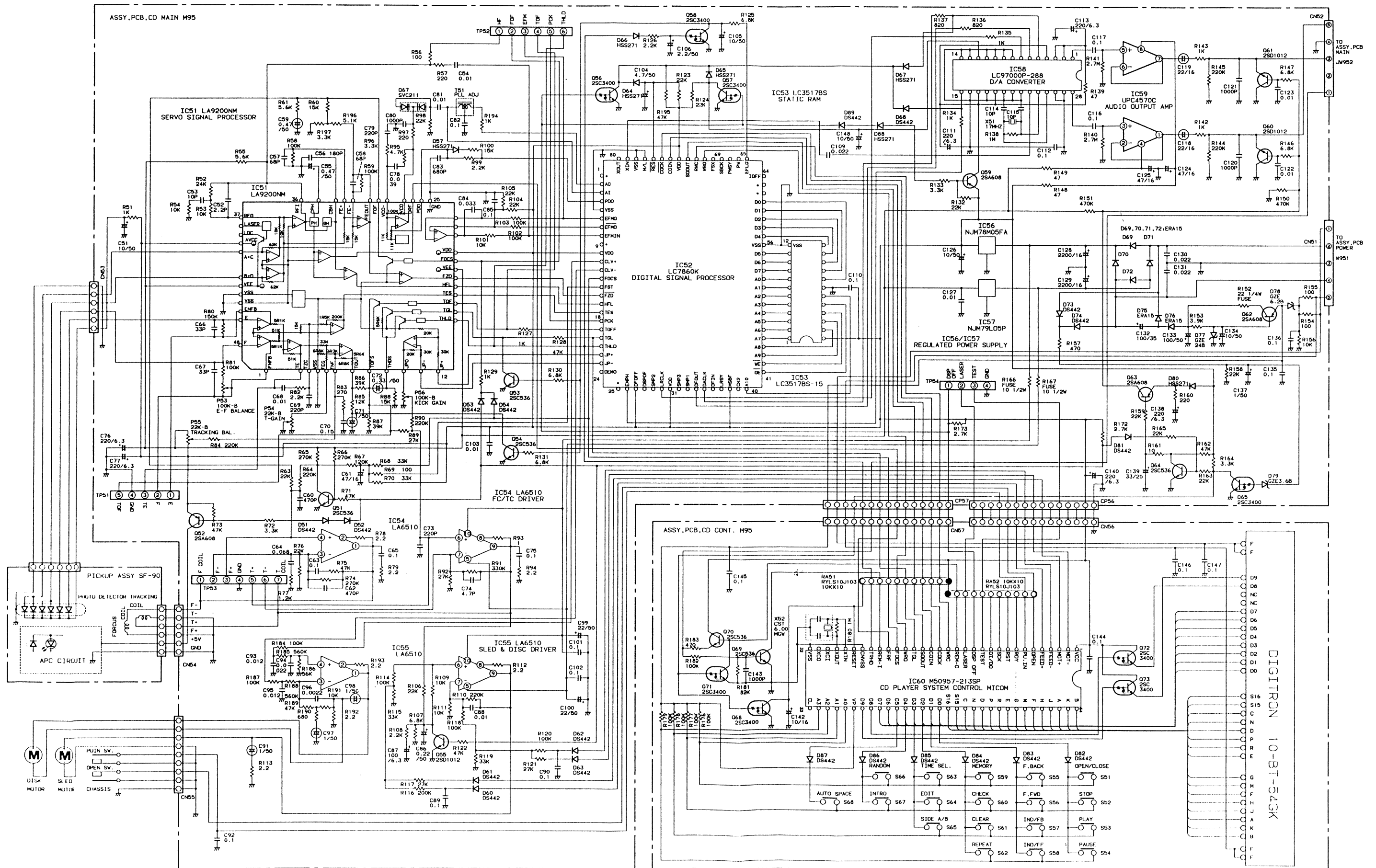
WIRING DIAGRAM (CD Player Section)



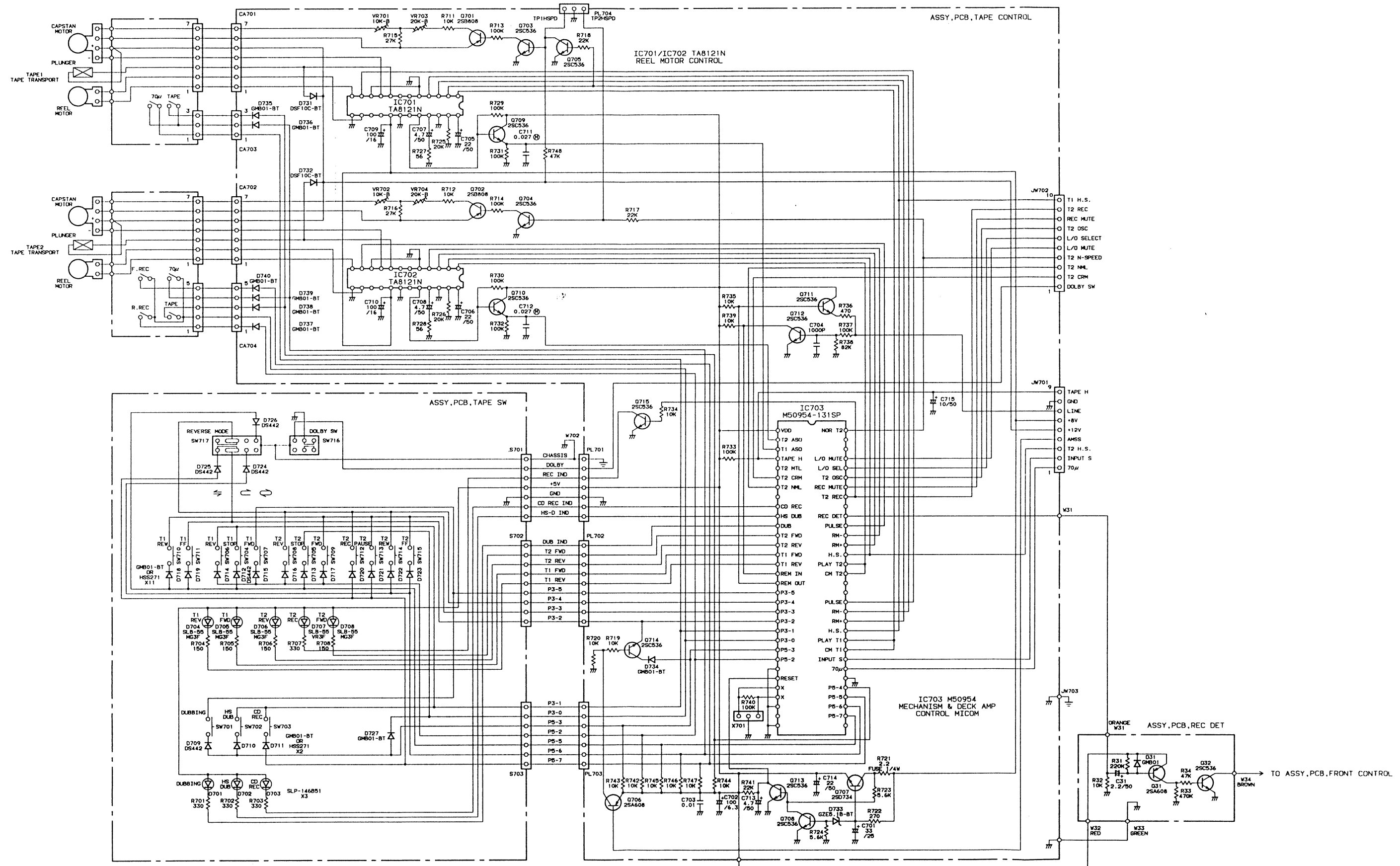
WIRING DIAGRAM (Main Section)



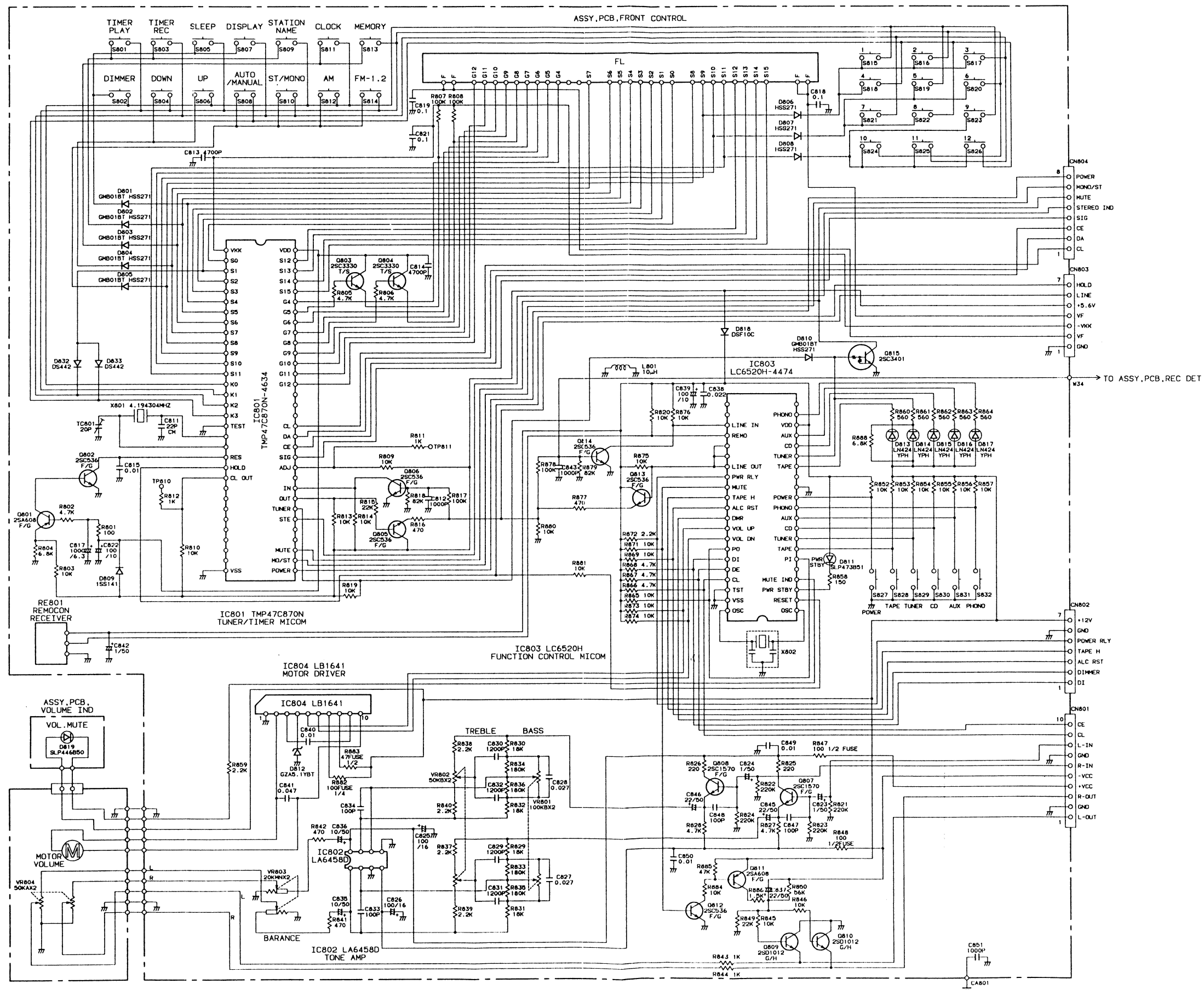
SCHEMATIC DIAGRAM (CD Player Section)



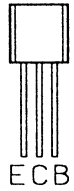

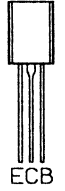
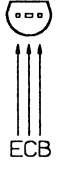
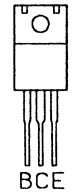


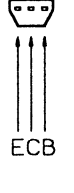
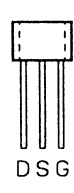
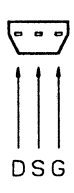



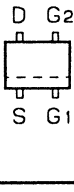
SCHEMATIC DIAGRAM (Tape Deck Section)



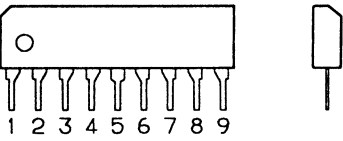
SCHEMATIC DIAGRAM (Front Control Section)



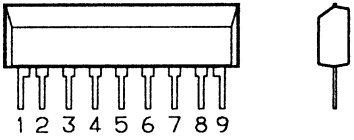
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC1570 2SC3068 2SC3708 2SC536 2SD734			2SB560 2SD438		
2SD1913			2SA1317 2SA1346 2SA608 2SB808 2SC2839 2SC2999 2SC3330 2SC3400 2SC3401 2SC536 2SD1012		
2SK544			2SK246		
3SK73					
TERMINAL NAME					
B → BASE S → SOURCE C → COLLECTOR G → GATE E → EMITTER D → DRAIN					

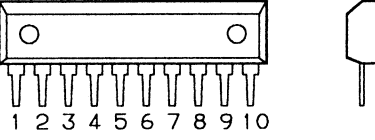
LA2000 FRONT/SIDE VIEWS
LA6458S FRONT/SIDE VIEWS



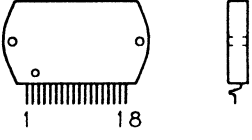
UPC1330HA FRONT/SIDE VIEWS



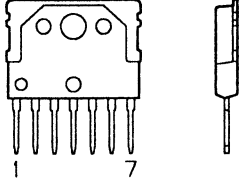
LB1641 FRONT/SIDE VIEWS



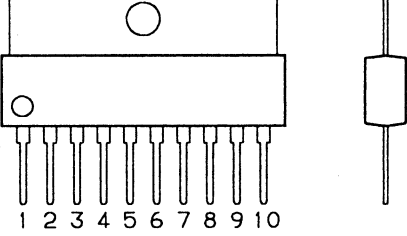
STK4182MK2 FRONT/SIDE VIEWS



LA5667 FRONT/SIDE VIEWS

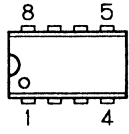


LA6510 FRONT/SIDE VIEWS

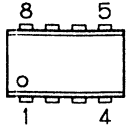


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

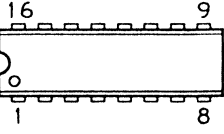
UPC4570C TOP VIEW



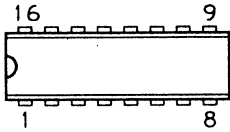
LA6458D TOP VIEW



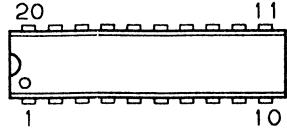
LM7001 TOP VIEW



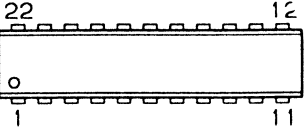
CXA1101P TOP VIEW



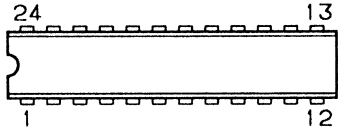
LA3246 TOP VIEW



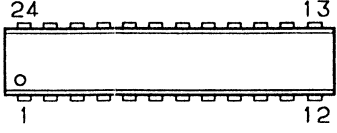
LA1265 TOP VIEW
LA3401 TOP VIEW



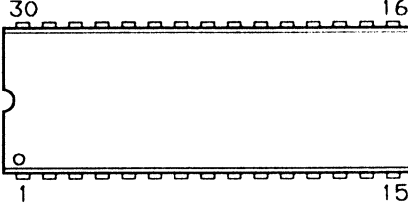
TA8121AN TOP VIEW



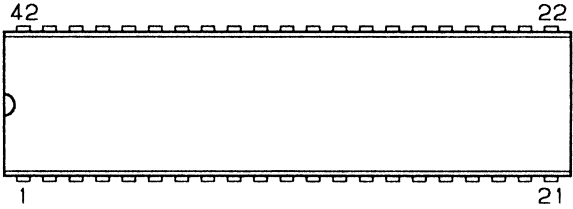
LC3517BS-15 TOP VIEW



LC7823 TOP VIEW



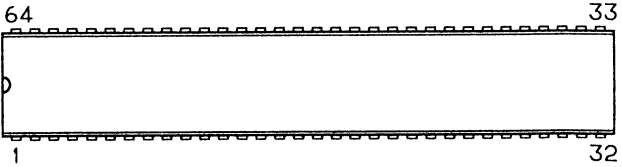
LC6520H-4474 TOP VIEW



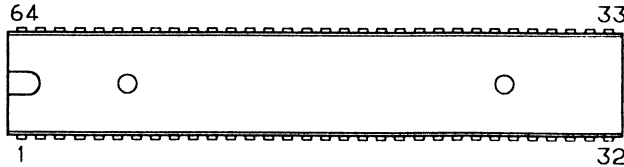
TMP47C870N-4634Z TOP VIEW



M50957-213SP TOP VIEW

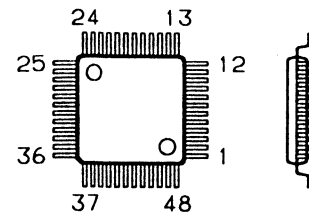


M50954-131SP TOP VIEW

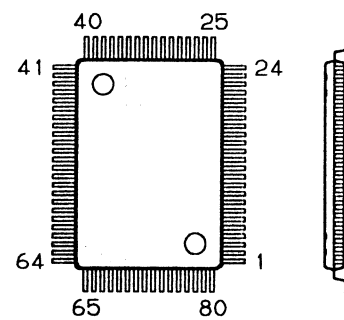


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

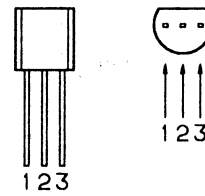
LA9200NM TOP/SIDE VIEWS



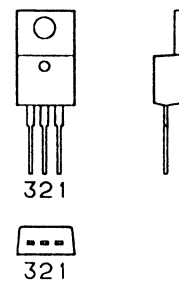
LC7860K TOP/SIDE VIEWS



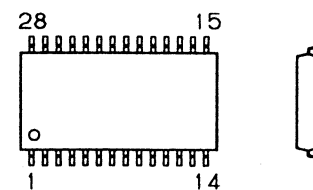
NJM79L05A FRONT/BOTTOM VIEWS



NJM78M05FA FRONT/BOTTOM VIEWS



LC97000P-288 TOP/SIDE VIEWS



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1 / WM570544
HLO3J211 / SERVICE MANUAL / 0893798FISHER

SANYO FISHER Vertriebs GmbH

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8000 München 82 Tlx: 524033

Technisches Labor/ Durchwahl -122/121
Qualitätskontrolle

Service-Zentrale	
Color TV	-166
Hi-Fi/Audio	-168
Video	-172
Autoradio	-170
Ersatzteillager	-155/156/160/164
Techn. Schulung	-174

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Bitte geben Sie unbedingt die Ersatzteil-Nummer und die Modellbezeichnung an.
Sie sparen so wertvolle Zeit. Vielen Dank.

C DIAGRAM (Main Unit Section)

